

**ENGINEERING & MONITORING
PLAN**

RISK-BASED PCB DISPOSAL APPROVAL

**ARSYNCO, INC. SITE
CARLSTADT, NEW JERSEY**

Prepared for

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1.0 INTRODUCTION

1.1 PROJECT INTRODUCTION

This Engineering and Monitoring Plan (E&M Plan) outlines the activities necessary to address soils at the Arsynco, Inc. property (the Site) that contain concentrations of PCBs ≥ 50 parts per million (ppm) in accordance with Arsynco's Application for Risk-Based Clean-up/Disposal of PCB Remediation Waste that was submitted to EPA ("Arsynco's Application"). The Arsynco site is located in Carlstadt, Bergen County, New Jersey.

Arsynco's Application that EPA considered and approved included the following documents:

- October 8, 1998 Application for Risk-Based Cleanup Approval;
- October 11, 1999 Addendum to Application for Risk-Based Cleanup Approval;
- October 10, 2000 Proposed Remedy and Human Health Risk Assessment of PCB-Impacted Soils;
- December 2003 Remedial Investigation Report Addendum & Remedial Action Workplan; and,
- October 4, 2004 Cap Specifications for PCB Remediation: Application for Risk-Based Cleanup Approval.

The Arsynco Application was approved by EPA and became effective on July 21, 2009 (the "EPA Approval" or the "Approved Plan").

The PCB soil remediation being conducted under this approval includes the excavation and off-site disposal of site soils impacted with PCBs ≥ 500 ppm, with the exception of the material located within the former pond area. The former on-site pond is designated as the "Former On-Site Pond TSCA Disposal Area". The Former On-Site Pond TSCA Disposal Area contains material with PCB concentrations above 500 ppm that is already effectively contained within the former pond.

Following the excavation and off-site disposal of soil with PCBs ≥ 500 ppm, soils located on Tract 1 and Tract 2 that contain PCBs between 50 and 499 ppm will remain on-site and will be consolidated into one area on the eastern part of Tract 1. This area of consolidation is designated as the “Consolidated Material TSCA Disposal Area”. The location of the Consolidated Material TSCA Disposal Area on the eastern part of Tract 1 is illustrated on Figure 1. In accordance with part 3 D) of the EPA Approval, the proposed location of the Consolidated Material TSCA Disposal Area was provided to EPA for review and approval on June 10, 2015. As illustrated on Figure 1, the “Consolidated Material TSCA Disposal Area” will occupy a footprint of approximately 49,375 square feet and will cover the entire area of the “Former On-Site Pond TSCA Disposal Area”. The elevation of the entire “Consolidated Material TSCA Disposal Area” (and also the “Former On-Site Pond TSCA Disposal Area”) will be brought to a grade of at least 1 foot above the 100 year flood elevation. Additionally, the entire perimeter of the “Consolidated Material TSCA Disposal Area” (and also the “Former On-Site Pond TSCA Disposal Area”) will be surrounded with a stabilized earthen and rip-rap berm as depicted on Figure 1.

Prior to soil excavation activities additional soil characterization sampling was conducted as discussed in Section 3.1 of this document. A primary purpose of the pre-excavation soil sampling was to collect pre-excavation/delineation/compliance point samples to pre-determine the excavation limits and reduce the need for significant post-excavation sampling that would delay backfilling operations and create substantial difficulties with implementation of the remedy as set forth in Section 3.0 below. The pre-excavation grid sampling program was discussed with EPA during a May 27, 2011 meeting at EPA offices in Edison, New Jersey and was formally presented to EPA in the May 2012 version of the Engineering & Monitoring Plan document. The pre-excavation grid sampling approach was agreed to by EPA at the May 27, 2011 meeting and also in a May 25, 2012 email from EPA. As part of the EPA-approved sampling approach, Arsynco will rely upon the results of the pre-excavation soil samples as confirmatory end point samples without the need to collect additional confirmatory post-excavation sidewall samples. Additional, post-excavation soil samples will only be required at the base of the excavation at a frequency of one sample every 50 feet of excavation base (in addition to the existing “clean” base samples already obtained every 20 feet).

The attached Figures 2 through 6 show the locations of soils on Tract 1 with PCB concentrations ≥ 500 ppm that will be disposed off-site (shown as red areas on Figures) and soils with PCB concentrations between 50 ppm and 499 ppm that will be consolidated (orange areas on Figures). Figures 7 through 14 show the locations of soils on Tract 2 with PCB concentrations ≥ 500 ppm (shown as red areas on Figures) and soils with PCB concentrations between 50 ppm and 499 ppm (shown as orange areas on figures). The horizontal and vertical extents of these soil excavation areas for the PCB remediation were determined through the extensive pre-excavation PCB grid sampling program completed at the site (refer to Section 3).

Once the excavation and consolidation activities are completed, both of the TSCA Disposal Areas will be capped in accordance with the October 4, 2004 Cap Specifications for PCB Remediation document and the requirements provided at 40 C.F.R. §761.61(a)(7) and C.F.R. §264.310(a). The asphalt cap over the “Former On-Site Pond TSCA Disposal Area” and the “Consolidated Material TSCA Disposal Area” will be 6 inches thick and will be underlain by 6 inches of crushed aggregate base course (CABC). Please note that the berms discussed in the October 4, 2004 Cap Specifications for PCB Remediation document will be modified slightly. Rather than installing berms along the eastern and southern property boundaries, the entire area encompassing the “Former On-Site Pond TSCA Disposal Area” and the “Consolidated Material TSCA Disposal Area” will be surrounded by berms to protect the area from 100 year flood events, as shown on Figure 1. This revised berm location plan was determined to be much more protective of the TSCA Disposal Areas.

Additional activities will be conducted following cap and berm construction, including the installation of fencing, recording of a Deed Notice, installation of monitoring wells upgradient and downgradient of the TSCA Disposal Areas and perpetual monitoring and maintenance activities.

1.2 PURPOSE AND ORGANIZATION OF REPORT

The purpose of this E&M Plan is to provide a summary of the plans and specifications to achieve the remedial action objectives and the long-term maintenance and monitoring requirements specified in the Arsynco Application and the EPA Approval. This report has been structured as follows:

Section 1: Introduction – This section presents the background information on the project and identifies the purpose and scope of this E&M Plan.

Section 2: Site Description and Background – This section provides a description of the Site and the administrative history of the Site.

Section 3: Pre-Excavation PCB Grid Sampling Program – This section provides a summary of the results of the extensive grid sampling program conducted at the Site to obtain additional PCB soil characterization data and to pre-define the horizontal and vertical limits of the soil excavation required to complete the remedial program.

Section 4: Remediation Plan & Technical Approach – This section provides a summary of the activities that have been or will be conducted both prior to implementation of the remedial design (RD) and during the RD activities under the Risk-Based PCB Clean-up/Disposal Approval. This section describes the components of the RD, discusses the support plans necessary to support the project (e.g., – Health and Safety Plan, Dust Control Plan, Air Monitoring Plan, Quality Assurance Project Plan, etc.), describes various components of the site setup (e.g., – site security, access, staging and work zones, etc.), and summarizes the pre-mobilization and mobilization activities.

Section 5: Schedule – Section 5 provides the schedule for the project.

Tables, Figures and Appendices are also included in this report. These materials provide additional information, summarize relevant data, and serve as the basis for design decisions.

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 SITE DESCRIPTION

The Arsynco property consists of approximately 12.3 acres of land located at the western boundary of the Hackensack Meadowlands area. The Arsynco property is divided into two (2) adjacent tracts of land. The main portion of the site, known as Tract 1, consists of approximately 9.5 acres of land, and formerly contained all production operations. The buildings on the site were demolished following cessation of operations in 1993. The majority of the PCB contamination at the site is located on Tract 1, and the highest concentrations of PCBs were identified within the fill material present in the southeast section of this area. The entire Tract 1 area (below the fill material) is underlain by meadow mat and native glacial lake bottom materials comprised of heavy clays.

Tract 2 of the property is located to the east of Tract 1 and consists of approximately 2.8 acres of low lying, undeveloped, marshy land. Tract 2, which borders 16th Street in Carlstadt, has never been developed and contains small, manmade drainage swales that are connected to Never Touch Creek. The soils on Tract 2 were reworked extensively in the past to satisfy the construction of Sixteenth Street and drainage concerns in the region. The drainage system on Tract 2 is under tidal influences and has historically been used to accept surficial runoff from the entire industrial region surrounding the Site. As a result, Tract 2 receives flow of poor quality water from Never Touch Creek (via Berry's Creek, the Hackensack River and Newark Bay) as well as discharges and/or runoff from all of the adjacent properties. The site sampling program conducted has also documented that PCBs are present at levels ≥ 50 ppm and >500 ppm on Tract 2, and these soils are also part of the PCB remedial activities that will be conducted under Arsynco's Application.

The Arsynco property, as well as virtually all of the land to the north, south and east of the site was once marsh land, typical of the undeveloped portions of the Hackensack Meadowlands. However, nearly the entire area has been filled in over the years to support development and construction. Much of the filling throughout the Hackensack Meadowlands region occurred as unregulated dumping decades ago, prior to the regulation of this area. As such, the quality of

materials historically used to fill the entire region is highly suspect, and regional contamination problems are well documented. Site investigations have confirmed the presence of up to approximately 8 feet of fill above the native meadow mat layer on the Arsynco site.

As the result of filling, ground surface elevations across Tract 1 of the site are generally about 5 to 8 feet above mean sea level. Due to these common, low elevations, much of the Meadowlands district is affected by tidal inundations from Newark Bay and fluvial flows from the Hackensack River and Berry's Creek. Annual water level elevations of up to 5.5 feet above mean sea level in the Hackensack River have been reported, and a maximum high tide of 8.3 feet above mean sea level was recorded in 1960, representing a tidal frequency of 100 years. Although the Arsynco property is located within the 100 year flood plain of the Hackensack River system, it should be noted that the water level measurements in the Hackensack River decrease upstream as the water spreads over the low-lying flood plain along the river and its tidal creeks and ditches. Therefore, it would be expected that the 100 year tidal event would be much less magnified at the Arsynco site. The TSCA Disposal Areas constructed under this Approval will be surrounded by flood control berms.

2.2 SITE ADMINISTRATIVE HISTORY

The request for a Risk-Based Cleanup Approval for the remediation of PCB contaminated soil at the Arsynco site, prepared in accordance with 40 CFR §761.61(c), was originally submitted to EPA in October 1998. The October 1998 application included a proposal to actively remove contaminated soil containing PCBs at or above 500 ppm via excavation and off-site disposal and to consolidate and cap the remaining contaminated soils containing PCB concentrations from 50 to 499 ppm. Consolidation of the PCB contaminated soils that would remain on the site at levels between 50-499 ppm was proposed in order to confine this material to a limited, manageable area of the property, while making a larger portion of the site useable and more attractive to potential developers.

Following review of the Risk-Based Cleanup application, EPA issued a response letter dated July 23, 1999. The July 1999 letter from EPA requested various informational items from Arsynco.

On October 11, 1999 Arsynco submitted a response to EPA which addressed most aspects of the Agency's July 1999 letter. In October 2000 Arsynco submitted a baseline human health risk assessment in accordance with the EPA guidance provided. The results of the risk assessment demonstrated that there was no unreasonable risk posed by PCBs in site soils following implementation of either the "baseline" remedy, as required by EPA, or the "alternative" remedy additionally evaluated by Arsynco as part of the risk assessment process, and the results were well within acceptable regulatory risk ranges.

The required cap and berm specification proposals, providing scenarios using either an asphalt parking lot or a future building floor slab as a cap was prepared and was submitted to USEPA in April 2004. Following submittal of the April 2004 cap specification plan document, USEPA requested a meeting at the Arsynco site. The site meeting was held on August 26, 2004. During the site meeting, USEPA stated that Risk-Based PCB Cleanup Approval issued by USEPA could not be issued for "potential" cap plan scenarios (as provided in the April 2004 document). Rather, EPA noted that the future approval could only be issued for a single, defined cap plan for the site. As a result, USEPA requested that Arsynco determine which cap plan was most appropriate and submit a single cap plan for EPA's consideration. However, EPA also stated that the cap plan could be revised/modified either by Arsynco or an authorized third party at a future date, if required, although the Agency noted that a separate approval would have to be issued by EPA. EPA also indicated that if a modification were made to the capping plan, the re-issuance of an approval by the Agency should be a relatively simple process and that re-issuance of an approval would not necessarily require another public notice. The final cap specification document was then submitted to EPA in October 2004. Please note that no material modifications to that cap specification plan have been made or proposed, and a 6 inch thick asphalt cap will be installed over the TSCA Disposal Areas.

Additionally, the October 2004 document also included an amendment to the October 1998 Application to allow material contaminated with PCB levels above 500 ppm that was located within the former pond on the east side of Tract 1 to remain on the Site.

The above document submittals made up the Arsynco Application to EPA. The Arsynco Application was approved by EPA with an effective date of July 21, 2009.

Subsequent to the EPA Approval, Arsynco submitted the required Engineering & Monitoring Plan (E&M Plan) to EPA, with the most recent revision dated May 2012. The May 2012 E&M Plan summarized the proposed pre-excavation grid sampling program that was proposed by Arsynco and approved by EPA via an email dated May 25, 2012. However, due to the more recent completion of the approved pre-excavation grid sampling program EPA requested that the grid sampling results be submitted and that the E&M Plan be updated to reflect any changed site conditions. This document provides the updated E&M Plan, and the results of the pre-excavation grid sampling program are provided herein and discussed in Section 3.

3.0 PRE-EXCAVATION PCB GRID SAMPLING PROGRAM

3.1 PURPOSE AND SCOPE OF GRID SAMPLING PROGRAM

Between August 2012 and January 2014, a total of 3,780 additional soil samples were collected from the Arsynco site (Tract 1 and Tract 2) and analyzed for PCBs. The samples were collected using a detailed, grid-based sampling program to more precisely determine the concentrations of PCBs in site soils and to establish the horizontal and vertical extents of the areas where PCBs are present ≥ 500 ppm (that require excavation and off-site disposal) and between 50 and 499 ppm (that require excavation and consolidation into the “Consolidated Material TSCA Disposal Area”). The data collected during the 2012-2014 grid sampling program supplemented existing data obtained from prior PCB sampling programs conducted in the mid to late 1990s which were described in detail in the Arsynco Application.

The pre-excavation grid soil sampling program was conducted to gather significant, additional PCB characterization sample data and to establish pre-excavation compliance point samples that will represent the limits of the soil excavation program that will be required to implement the remedial program under the EPA Approval. The recent grid sampling program resulted in a minimum sample frequency of three (3) sidewall samples per 20 linear feet of sidewall (3

vertical samples every 20 feet) and at least one bottom sample per 400 square feet of excavation bottom area (i.e. – at least one bottom sample for every 20-foot grid).

The pre-excavation grid sampling program was discussed with EPA during a May 27, 2011 meeting at EPA offices in Edison, New Jersey and was formally presented to EPA in the May 2012 version of the E&M Plan document. The pre-excavation grid sampling approach was agreed to by EPA at the May 27, 2011 meeting and also in a May 25, 2012 email from EPA. As part of the EPA-approved sampling approach, Arsynco will rely upon the results of the pre-excavation soil samples as confirmatory end point samples without the need to collect significant, additional confirmatory post-excavation sidewall samples. However, as agreed with EPA, additional, post-excavation soil samples will be collected from the base of the excavation at a frequency of one sample every 50 feet of base area following excavation.

3.1.1 Establishment of Sample Grid, Surveying, and Naming Sequence

For the 2012-2014 sampling program, a square 20-foot grid was established on a magnetic north orientation that covered and extended beyond the known soil excavation areas on Tract 1 and Tract 2 of the Arsynco Site. Soil borings were installed at the center point of each grid (i.e., every 20 feet), and discrete soil samples were collected from multiple depths in each of the borings. Based on the sample results, the grids were expanded outward, as necessary, until samples were obtained from the various depth increments that demonstrated PCB concentrations below 50 ppm.

The grid points were named based on an alpha-numeric grid coordinate system where each grid cell was identified by a letter (north-south grid lines) and a number (east-west oriented grids). Therefore, each grid location had a unique number and letter (e.g. – “Y-39”). Soil samples were named with the alpha-numeric grid designation and the sample depth (e.g., sample “Y-39 (2.0-4.0)”). When more precise soil sample delineation was required within a specific grid cell (i.e., less than 20-foot spacing), additional borings were installed outward from the grid center point sample location, and those samples were named based on the alpha-numeric grid cell designation, the direction from the grid center, and the sample depth (e.g., sample “Y-39N (2.0-

4.0)", which would have been installed to the north of sample "Y-39"). The grid pattern and cell designations are shown on attached Figures 2 through 14.

The PCB grid program sample locations were surveyed by a NJ-licensed land surveyor. Site benchmarks were established via Leica GPS equipment utilizing Leica Smartnet for RTK corrections. The sample locations were surveyed to within an accuracy of 0.25 inches via a Trimble Robotic total station running off the previously set GPS site benchmarks. The surveyed GPS coordinates for both the recent PCB grid sample points and the older PCB sample data from the site were input into ArcGIS software, and the data points were mapped spatially. The GIS-mapped sample data points are illustrated on Figures 2 through 14. These surveyed sample points will provide a reliable means of excavating to the precise compliance point sample locations.

3.1.2 Sampling Methodology

Between August 2012 and January 2014, a total of 3,780 additional soil samples were collected from the Arsynco site (Tract 1 and Tract 2) and analyzed for PCBs. Samples on Tract 1 were collected using a Geoprobe direct push drilling unit, with samples obtained across 2-foot depth increments (e.g., 0-2', 2'-4', etc.). The soil samples on Tract 2 were collected manually using an AMS multi-stage stainless steel sediment sampler or a stainless-steel hand auger. Tract 2 samples were collected in 1-foot depth increments (e.g., 0-1', 1'-2', etc.).

Samples were collected in accordance with the procedures outlined in the NJDEP's Field Sampling Procedures Manual (August 2005) and the Technical Requirements for Site Remediation (TRSR - N.J.A.C. 7:26E). Field blank QA/QC samples were collected on each day of sampling. The samples were submitted to the laboratory and analyzed within appropriate holding times. The site activities were conducted in accordance with the pertinent general industry (29 CFR 910) and construction (29 CFR 1926) standards of the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA), as well as any other applicable state laws and regulations and municipal codes and ordinances. The PCB samples were properly preserved in the field upon collection.

3.1.3 Analytical Methodology

The grid soil samples collected from the Arsynco Site (Tract 1 and Tract 2) were analyzed for PCBs via Method 8082 from SW-846. The soil samples were analyzed by Integrated Analytical Laboratories, a NELAP New Jersey accredited and certified analytical laboratory (NJDEP #14751). Laboratory data was received in NJ-Reduced data deliverable format. The daily field blank QA/QC samples were also analyzed for PCBs via Method 8082. Copies of the laboratory analytical results for the grid program samples are provided as Appendix A (Tract 1 samples) and Appendix B (Tract 2 samples) on the attached CD-ROM.

3.2 PRE-EXCAVATION GRID SAMPLING PROGRAM RESULTS

3.2.1 TRACT 1 GRID SAMPLING RESULTS

During the recent grid sampling program soil borings were installed at the center point of each Tract 1 grid locations (i.e., every 20 feet), and a minimum of three (3) discrete soil samples were collected from successive, discrete 2-foot depth intervals (e.g., 0-2', 2'-4' and 4'-6') in each of the initial grid borings. Additional depth increment samples were also collected during this initial program if a discernible change in soil type was noticed or based on other conditions observed in the field. The soil samples were analyzed for PCBs to provide a detailed vertical profile of PCB concentrations at each twenty (20)-foot grid location.

Based on the results of the initial grid samples obtained, additional soil samples were collected, as required, to further delineate both the horizontal and vertical extent of PCBs until compliance with the 50 ppm consolidation level and the 500 ppm cleanup level for PCBs was demonstrated. This involved collecting subsequent soil samples from deeper increments in certain borings (for vertical delineation) and collecting soil samples from additional borings installed at locations lateral to the initial/prior sample locations for further and more precise horizontal delineation, as required.

As part of the recent grid sampling program that was conducted between August 2012 and January 2014, more than 2,800 additional PCB soil samples were collected from over 1,050 soil borings installed on Tract 1. Boring logs for the Tract 1 PCB grid borings are provided on the attached CD-ROM as Appendix C. Overall, the total number of soil samples collected from each 2-foot depth interval on Tract 1, including both the recent grid samples and the historic soil samples, that were analyzed for PCBs is as follows:

SOIL SAMPLE DEPTH ZONE TRACT 1	TOTAL NUMBER OF SOIL SAMPLES ANALYZED FOR PCB'S	TOTAL NUMBER OF SAMPLES WITH PCB's <50 ppm	TOTAL NUMBER OF SAMPLES WITH PCB's ≥50 to 499 ppm	TOTAL NUMBER OF SAMPLES WITH PCB's >500 ppm
0 - 2.0'	1007	610	295	102
2.0' - 4.0'	929	685	139	105
4.0' - 6.0'	895	755	55	85
6.0' - 8.0'	158	142	10	6
8.0' - 10.0'	27	18	7	2
10.0' - 12.0'	1	1	0	0
TOTALS	3017	2211	506	300

The results of the recent grid soil samples collected from Tract 1 are summarized on Table 1. Please note that Table 1 also includes the results of the previous PCB soil samples that were collected at the site during former investigations and that were provided to EPA in previous submittals. The soil samples where total PCBs were detected on Tract 1 at concentrations ≥ 500 are displayed as red hi-lighted cells on Table 1. The soil samples where total PCBs were

detected on Tract 1 at concentrations between 50 and 499 ppm are displayed as orange hi-lighted cells on Table 1.

The Tract 1 PCB sample data summarized on Table 1 are illustrated visually on Figures 2 through 6, which show sample locations (GIS mapping of surveyed sample point data) by depth zone that are color coded by PCB concentration (refer to Figure legend). Similar to Table 1, these figures illustrate soil samples where total PCBs were detected at concentrations ≥ 500 ppm in red and locations where total PCBs were detected at levels between 50 and 499 ppm in orange.

As Figures 2 through 6 illustrate, the lateral, delineated extents of the red areas (PCBs ≥ 500 ppm requiring excavation and off-site disposal) are defined by sample locations where PCBs were detected at levels below 500 ppm. The red areas shown on Figures 2 through 6 depict the lateral extent of the excavation for each 2-foot depth zone where the PCB impacted soil will be excavated and properly disposed off-site in accordance with the EPA Approval. The red area boundary delineation soil samples that mark the lateral extent of the ≥ 500 ppm PCB excavation areas are at a frequency of one confirmatory sample for approximately every 20 linear feet of excavation sidewall.

Figures 2 through 6 also illustrate the lateral, delineated extents of the orange areas for each 2-foot depth zone where PCBs were detected at levels between 50 and 499 ppm. The soil within the orange areas is the material that will be excavated and consolidated into the “Consolidated Material TSCA Disposal Area”. The soil containing PCBs between 50 and 499 ppm that is already located within the TSCA Disposal Areas will not be excavated and will simply remain in-place in this area. The extents of the orange areas are defined by sample locations (one sample per 20 linear feet of sidewall) where PCBs were detected at levels below 50 ppm.

The vertical extent of soil excavation for both the material with PCBs ≥ 500 ppm (red areas) and between 50 and 499 ppm PCBs (orange areas) are depicted via the successive depth increment maps.

Overall, the extensive PCB grid soil sampling program completed at the site has demonstrated that 5,626 cubic yards of soil from Tract 1 contains PCBs ≥ 500 ppm that will be excavated and properly disposed at an off-site facility (not including material within the “Former On-site Pond TSCA Disposal Area”). An analysis of the grid sample data has also determined that 10,383 cubic yards of soil on Tract 1 contains PCB levels between 50 and 499 ppm, which will be placed into the “Consolidated Material TSCA Disposal Area”; of this total, 2,181 cubic yards is already located within the boundaries of the “Consolidated Material TSCA Disposal Area”.

The Tract 1 soil quantities by depth zone are summarized below:

TRACT 1 DEPTH ZONE	QUANTITY OF SOIL WITH PCBs ≥ 500 ppm	QUANTITY OF SOIL WITH PCBs 50 ppm to 499 ppm
0 - 2.0'	1947 CY	6335 CY
2.0' - 4.0'	2028 CY	2916 CY
4.0' - 6.0'	1483 CY	950 CY
6.0' - 8.0'	136 CY	165 CY
8.0' - 10.0'	31 CY	17 Cy
10.0' - 12.0'	0	0
TOTALS	5625 CY	10383 CY

3.2.2 TRACT 2 GRID SAMPLING RESULTS

During the recent grid sampling program soil borings were installed at the center point of each of the Tract 2 grid locations (i.e., every 20 feet), and discrete soil samples were collected from successive, discrete 1-foot depth intervals (e.g., 0-1', 1'-2', 2'-3', etc.) in each of the initial grid

borings. The soil samples were analyzed for PCBs to provide a detailed vertical profile of PCB concentrations at each twenty (20)-foot grid location.

Based on the results of the initial grid samples obtained, additional soil samples were collected, as required, to further delineate both the horizontal and vertical extent of PCBs until compliance with the 50 ppm consolidation level and the 500 ppm cleanup level for PCBs was demonstrated. This involved collecting subsequent soil samples from deeper increments in certain borings (for vertical delineation) and collecting soil samples from additional borings installed at locations lateral to the initial/prior sample locations for further and more precise horizontal delineation, as required.

As part of the recent grid sampling program a total of 951 PCB soil samples were collected from borings installed on Tract 2 and analyzed for PCBs. Boring logs for the Tract 2 PCB grid borings are provided on the attached CD-ROM as Appendix D.

The numbers of samples collected from each 1-foot depth interval on Tract 2 are summarized below.

SOIL SAMPLE DEPTH ZONE TRACT 2	TOTAL NUMBER OF SOIL SAMPLES ANALYZED FOR PCB'S	TOTAL NUMBER OF SAMPLES WITH PCB's <50 ppm	TOTAL NUMBER OF SAMPLES WITH PCB's ≥50 to 499 ppm	TOTAL NUMBER OF SAMPLES WITH PCB's >500 ppm
0 - 1.0'	292	247	33	12
1.0' - 2.0'	255	214	31	10
2.0' - 3.0'	215	194	18	3
3.0' - 4.0'	138	133	3	2
4.0' - 5.0'	39	39	0	0
5.0' - 6.0'	36	36	0	0

6.0' - 7.0'	18	18	0	0
7.0' - 8.0'	5	5	0	0
TOTALS	998	886	85	27

The results of the recent grid soil samples collected from Tract 2 are summarized on Table 2. Table 2 also includes the results of the previous PCB soil samples that were collected within Tract 2 during former investigations and that were provided to EPA in previous submittals. The soil samples where total PCBs were detected on Tract 2 at concentrations ≥ 500 are displayed as red hi-lighted cells on Table 2. The soil samples where total PCBs were detected on Tract 2 at concentrations between 50 and 499 ppm are displayed as orange hi-lighted cells on Table 2.

The Tract 2 PCB sample data summarized on Table 2 are illustrated visually on Figures 7 through 14, which show sample locations (GIS mapping of surveyed sample point data) by depth zone that are color coded by PCB concentration (refer to Figure legend). Similar to Table 2, these figures illustrate Tract 2 soil samples where total PCBs were detected at concentrations ≥ 500 ppm in red and locations where total PCBs were detected at levels between 50 and 499 ppm in orange. *Please note that Tract 2 maps Figures 7 and 8 also display green colored areas for excavation of soils that contain PCBs at concentrations < 50 ppm. These Tract 2 areas mapped as green with PCBs < 50 ppm are illustrated because NJDEP has required remediation of Tract 2 soils to an average of 5 ppm total PCBs. Although the remediation of PCBs within Tract 2 to levels < 50 ppm is required as part of the NJDEP remedial plan approval, material with PCBs < 50 ppm is not subject to the EPA TSCA risk-based PCB disposal approval for the site. Therefore, for the purposes of this document, the green areas shown on Figures 7 and 8 are not relevant.*

As Figures 7 through 14 illustrate, the lateral, delineated extents of the red areas on Tract 2 (PCBs ≥ 500 ppm requiring excavation and off-site disposal) are defined by sample locations where PCBs were detected at levels below 500 ppm. The red areas shown on Figures 7 through 12 depict the lateral extent of the excavation for each 1-foot depth zone where the PCB impacted

soil will be excavated from Tract 2 and properly disposed off-site in accordance with the EPA Approval. The red area boundary delineation soil samples that mark the lateral extent of the ≥ 500 ppm PCB excavation areas on Tract 2 are at a frequency of one confirmatory sample for approximately every 20 linear feet of excavation sidewall.

Figures 7 through 12 also illustrate the lateral, delineated extents of the orange areas for each 1-foot depth zone where PCBs were detected in Tract 2 soils at levels between 50 and 499 ppm. The Tract 2 soil within the orange areas is material that will be excavated and consolidated into the “Consolidated Material TSCA Disposal Area” on Tract 1; this material will likely require some form of stabilization due to moisture content (e.g., mixing with fly ash, cement kiln dust, etc.) to allow for placement and adequate compaction within the “Consolidated Material TSCA Disposal Area”. The lateral extents of the orange areas on Tract 2 are defined by sample locations (one sample per 20 linear feet of sidewall) where PCBs were detected at levels below 50 ppm.

The vertical extent of soil excavation on Tract 2 for both the material with PCBs ≥ 500 ppm (red areas) and between 50 and 499 ppm PCBs (orange areas) are depicted via the successive Tract 2 depth increment maps (Figures 7 through 14). The vertical extent of excavation in these areas is defined by vertical samples where PCB levels have shown compliance with the approved levels of <500 ppm and <50 ppm.

Overall, the extensive PCB grid soil sampling program completed at the site has demonstrated that 1,079 cubic yards of soil from Tract 2 contains PCBs ≥ 500 ppm that will be excavated and properly disposed at an off-site facility. An analysis of the grid sample data has also determined that 1,918 cubic yards of soil on Tract 2 contains PCB levels between 50 and 499 ppm, which will be placed into the “Consolidated Material TSCA Disposal Area” on Tract 1.

The Tract 2 soil quantities by depth zone are summarized below:

TRACT 2 DEPTH ZONE	QUANTITY OF SOIL WITH PCBs ≥500 ppm	QUANTITY OF SOIL WITH PCBs 50 ppm to 499 ppm
0 - 1.0'	680 CY	747 CY
1.0' - 2.0'	310 CY	634 CY
2.0' - 3.0'	109 CY	390 CY
3.0' - 4.0'	80 CY	117 CY
4.0' - 5.0'	0	15 CY
5.0' - 6.0'	0	15 CY
TOTALS	1079 CY	1918 CY

3.2.3 TSCA WASTE SOIL CHARACTERIZATION

The extensive number of soil samples collected at the Arsynco site as part of the grid sampling program (over 4,000 soil samples collected from Tract 1 and Tract 2 combined) were analyzed for PCBs. This pre-excavation PCB data, as summarized on Tables 1 and 2 and illustrated on Figures 2 through 14, will be used for determining proper waste disposal in accordance with 40 CFR §761.61 and Part 3. B) and the EPA Approval. Therefore, the determinations regarding TSCA disposal will be made based on the “as found” concentrations prior to disturbance or excavation.

4.0 REMEDIATION PLAN & TECHNICAL APPROACH

4.1 REMEDIAL PLAN OVERVIEW

4.1.1 Excavation of Soils with PCBs \geq 500 ppm

Arsynco will excavate and properly dispose of soils which contain PCBs at concentrations \geq 500 ppm (with the exception of soils located within the “Former On-site Pond TSCA Disposal Area”). The locations and extents of the areas that will be excavated where PCBs are present at concentrations \geq 500 ppm are illustrated on Figures 2 through 14, attached.

Based on the extensive pre-excavation grid soil sampling program completed, the total quantity of soil from Tract 1 with PCBs at levels \geq 500 ppm is estimated to be 5,625 cubic yards.

The grid sampling program has also determined that the total quantity of soil containing PCBs at levels \geq 500 ppm on Tract 2 is approximately 1,079 cubic yards.

The total quantity of soil from the site that was found to contain PCBs at concentrations \geq 500 ppm (Tract 1 and Tract 2, excluding area of former pond) was estimated to be approximately 6,704 cubic yards.

4.1.1.1 Debris Segregation & Handling

If required by the selected disposal facility or otherwise necessary, debris encountered during the process of excavating soil with PCBs \geq 500 ppm will be segregated by physical composition and characterization of the materials. If required, this material may be decontaminated on-site or off-site prior to disposal or appropriate handling. Decontamination via an on-site washing process may be used and, if so, will be conducted in accordance with 40 CFR §761. Wastes generated from possible on-site decontamination/washing of debris will be handled in accordance with the requirements of 40 CFR §761.

If segregated debris is decontaminated on-site the debris will be sampled following the decontamination process according to the procedures set out in §761.79. Decontamination wastes and residues will be disposed of at their existing PCB concentration in accordance with 40 CFR §761.79(g). If the concentrations of PCBs in the debris are ≥ 500 ppm the debris will be properly disposed off-site. If the concentrations of PCBs in the debris samples are between 50 and 499 ppm the debris will be placed into the “Consolidated Material TSCA Disposal Area”. If the concentration of PCBs in the debris is < 50 ppm the debris may be returned to the Site.

4.1.1.2 Soil Drying / Dewatering

If dewatering or drying of excavated soil is deemed necessary or beneficial, excessively wet soils will be placed into temporary containment areas with an adequate base construction (e.g., liner, asphalt, etc.) and surrounded by containment berms (e.g., soil and/or hay bales wrapped in poly sheeting, etc.). These areas will be constructed to allow the free water content of the soil to decant (gravity drain) so that the water will be contained and collected. Water recovered from the dewatering operations will consist of groundwater drained from the soils. This water will be collected and treated via either the on-site groundwater treatment plant (GWTP) that Arsynco has received permits from NJDEP to operate (NJPDES Permit for Discharge to Surface Water and Treatment Works Approval) or properly disposed off-site.

If necessary, soils destined for off-site disposal may also be mixed with a suitable drying material such as fly ash or kiln dust to allow for proper shipping.

4.1.1.3 Confirmatory Sampling & Analysis

Confirmatory soil samples that show compliance with the 50 ppm and 500 ppm PCB remediation levels have already been collected as part of the extensive pre-excavation grid sampling program. By design, the 20 foot grid sampling program that was completed at the site has resulted in compliance point, confirmatory soil samples at a frequency of one sample for every 20 linear feet of excavation sidewall for each excavation depth and one base/bottom sample for every 400 square feet of excavation bottom area (one sample every 20 feet). These “compliance point”

sample location were surveyed by a NJ-licensed surveyor to precisely locate the pre-determined boundaries of the excavations in each area.

In addition, as required by EPA, additional post-excavation confirmatory soil samples will be collected every 50 feet at the base of each excavation following soil removal. This approach is considerably more stringent than what would otherwise be required under the NJDEP regulations (N.J.A.C. 7:26E). These additional, confirmatory soil samples collected from the base/bottom of each excavation area will be collected as discrete samples from the 6-inch increment of soil at the base of the excavation. For instance, bottom samples from areas excavated to 2 feet deep will be collected from the 2.0-2.5 foot interval, bottom samples from areas excavated to 4 feet deep will be collected from the 4.0-4.5 foot interval. Please note that if the results of certain post-excavation samples show PCB concentrations ≥ 500 ppm or ≥ 50 ppm outside the Consolidated Material TSCA Disposal Area, additional soil excavation to greater depths will be conducted in these locations and an additional post-excavation bottom sample will be collected.

4.1.1.4 Treatment & Disposal of Soils with PCBs ≥ 500 ppm

Under the Approved Plan soil that contains PCBs at concentrations ≥ 500 ppm will be properly disposed off-site. TSCA waste determination via waste characterization sampling will be based on as-found concentrations prior to disturbance, as discussed in Section 3.2.3 of this report. Please refer to Section 4.1.1.1 for details on how debris will be handled. The disposal vendor(s) selected will be required to meet both the regulatory requirements and scheduling aspects of this project. Transporters of the wastes will be required to demonstrate compliance with applicable state and federal requirements governing the transport of the wastes.

It is possible that some of the PCB contaminated soil that will be disposed off-site may also be subject to RCRA regulations and will require disposal at a facility that holds current permits for both TSCA and RCRA mixed wastes. Additional RCRA waste evaluation/characterization sampling of the soil will be performed, as necessary, following excavation as deemed necessary and as required by the selected TSD facility.

In the event that RCRA/TSCA mixed wastes are generated, Arsynco may elect to evaluate options for classification of the waste under RCRA or possible on-site management to address concentrations of RCRA-list contaminants or RCRA characteristics to effectively manage TSD treatment and disposal costs for the wastes. Arsynco may also elect to evaluate options for possible on-site management of materials to manage the concentrations of PCBs if it will result in a cost savings for the off-site treatment/disposal of that material. Regardless, soil that contains PCBs at concentrations ≥ 500 ppm will be properly disposed off-site.

4.1.2 Excavation & Consolidation of Soils with PCBs Between 50 ppm & 499 ppm

In accordance with the Approved Plan, soils with PCB concentrations < 500 ppm will remain on-site. As part of the Approved Plan, material with PCB levels of between 50 ppm and 499 ppm that remain at the site will be consolidated into the “Consolidated Material TSCA Disposal Area”. This area already contains a significant quantity of this affected 50-499 ppm material. The soils with PCB levels between 50 ppm and 499 ppm located in the other parts of the property will be excavated and moved to the “Consolidated Material TSCA Disposal Area”. The locations and extents of the areas that will be excavated where PCBs are present at concentrations between 50 and 499 ppm are illustrated on Figures 2 through 12, attached.

Once the appropriate material is placed in this area, the “Consolidated Material TSCA Disposal Area” will be capped in accordance with the requirements of the EPA Approval. The TSCA Disposal Areas will also be secured with appropriate fencing and marked with signs in accordance with 40 C.F.R. §761.40 and the M_L marking specified in 40 C.F.R. §761.45(a). Capping and other controls are discussed in the following sections of this report.

Based on the extensive pre-excavation grid soil sampling program completed, the total quantity of soil from Tract 1 with PCBs at levels between 50 ppm and 499 ppm is estimated to be 10,383 cubic yards.

The total quantity of soil containing PCBs at levels between 50 ppm and 499 ppm on Tract 2 is approximately 1,918 cubic yards.

4.1.2.1 Debris Segregation & Handling

Debris encountered during the process of excavating soil with PCBs between 50 ppm and 499 ppm may be segregated by physical composition and characterization of the materials if the debris will not or cannot be placed into the “Consolidated Material TSCA Disposal Area”. In this case, this material may be decontaminated on-site or off-site prior to disposal or appropriate handling. Decontamination via an on-site washing process may be used and, if so, will be conducted in accordance with 40 CFR §761. Wastes generated from possible on-site decontamination/washing of debris will be handled in accordance with the requirements of 40 CFR §761.

If segregated debris is decontaminated on-site the debris will be sampled following the decontamination process according to the procedures set out in §761.79. Decontamination wastes and residues will be handled or disposed of at their existing, as-found PCB concentration in accordance with 40 CFR §761.79(g).

4.1.2.2 Soil Drying / Dewatering

If dewatering or drying of excavated soil is deemed necessary or beneficial, excessively wet soils will be placed into temporary containment areas with an adequate base construction (liner, asphalt, etc.) and surrounded by containment berms (soil and/or hay bales wrapped in poly sheeting, etc.). These areas will be constructed to allow the free water content of the soil to decant (gravity drain) so that the water will be contained and collected. Water recovered from the dewatering operations will consist of groundwater drained from the soils. This water will be collected and treated via the on-site groundwater treatment plant (GWTP) that Arsynco has received permits from NJDEP to operate (NJPDES Permit for Discharge to Surface Water and Treatment Works Approval).

If necessary, soils for consolidation may be mixed with a suitable drying material such as fly ash or kiln dust prior to being placed into the “Consolidated Material TSCA Disposal Area”.

4.1.2.3 Confirmatory Sampling & Analysis

Confirmatory soil samples that show compliance with the 50 ppm and 500 ppm PCB remediation levels have already been collected as part of the extensive pre-excavation grid sampling program. By design, the 20 foot grid sampling program that was completed at the site has resulted in compliance point, confirmatory soil samples at a frequency of one sample for every 20 linear feet of excavation sidewall for each excavation depth and one base/bottom sample for every 400 square feet of excavation bottom area (one sample every 20 feet). These “compliance point” sample location were surveyed by a NJ-licensed surveyor to precisely locate the pre-determined boundaries of the excavations in each area.

In addition, as required by EPA, additional post-excavation confirmatory soil samples will be collected every 50 feet at the base of each excavation following soil removal. This approach is considerably more stringent than what would be required under the NJDEP regulations (N.J.A.C. 7:26E). These additional, confirmatory soil samples collected from the base/bottom of each excavation area will be collected as discrete samples from the 6-inch increment of soil at the base of the excavation. For instance, bottom samples from areas excavated to 2 feet deep will be collected from the 2.0-2.5 foot interval, bottom samples from areas excavated to 4 feet deep will be collected from the 4.0-4.5 foot interval. Please note that if the results of certain post-excavation samples show PCB concentrations ≥ 500 ppm or ≥ 50 ppm outside the Consolidated Material TSCA Disposal Area, additional soil excavation to greater depths will be conducted in these locations and an additional post-excavation bottom sample will be collected. Additional excavated soil will be handled in accordance with the Approved Plan based on the as-found PCB concentrations.

4.1.3 Preparation, Grading & Cap Construction in TSCA Disposal Areas

As illustrated on Figure 1, the “Consolidated Material TSCA Disposal Area” will occupy a footprint of approximately 49,375 square feet (not including the perimeter berm) and will cover the entire area of the “Former On-Site Pond TSCA Disposal Area”. The elevation of the entire

“Consolidated Material TSCA Disposal Area” (and also the “Former On-Site Pond TSCA Disposal Area”) will be brought to a grade of at least 1 foot above the 100 year flood elevation. Based on the calculations of soil quantities that have been determined (amounts of soil to be removed and added to consolidation area), it is estimated that there will be a net addition of approximately 7,200 cubic yards of soil (50-499 ppm) to the “Consolidated Material TSCA Disposal Area” prior to capping. This results in an average asphalt cap surface elevation of approximately 10 feet above mean sea level. Additionally, the entire perimeter of the “Consolidated Material TSCA Disposal Area” (and also the “Former On-Site Pond TSCA Disposal Area”) will be surrounded with a stabilized earthen and rip-rap berm as depicted on Figure 1.

Once the excavation and consolidation activities are completed, both of the TSCA Disposal Areas will be capped in accordance with the October 4, 2004 Cap Specifications for PCB Remediation document and the requirements provided at 40 C.F.R. §761.61(a)(7) and C.F.R. §264.310(a). The asphalt cap cover over the “Former On-Site Pond TSCA Disposal Area” and the “Consolidated Material TSCA Disposal Area” will be 6 inches thick and will be underlain by 6 inches of crushed aggregate base course (CABC). Please note that the berms discussed in the October 4, 2004 Cap Specifications for PCB Remediation document will be modified slightly. Rather than installing berms along the eastern and southern property boundaries, the entire area encompassing the “Former On-Site Pond TSCA Disposal Area” and the “Consolidated Material TSCA Disposal Area” will be surrounded by berms to protect the area from 100 year flood events, as shown on Figure 1. This revised berm location plan was determined to be much more protective of the TSCA Disposal Areas.

Prior to cap construction, the soils placed into the “Consolidated Material TSCA Disposal Area” will be amended (fly ash or similar ad-mix product), as necessary, to dry the soil to allow for proper compaction to stabilize the area to avoid differential settling and cracking of the subsequent asphalt cap surface. Once the soil material is amended, compacted and graded (to promote appropriate surface drainage) the cap will be constructed. The purpose of the cap is to provide a physical barrier between the underlying contaminated soil and humans, animals and plant roots, as well as to minimize infiltration of surface water, promote drainage, minimize

erosion and to support the required site traffic. A cross-sectional detail of the “Consolidated Material TSCA Disposal Area” and cap/berms is provided on Figure 1.

Additional activities will also be conducted following cap and berm construction, including the installation of fencing and signs, recording of a Deed Notice, installation of monitoring wells upgradient and downgradient of the TSCA Disposal Areas and perpetual monitoring and maintenance activities. Please refer to subsequent sections of this document.

4.1.4 Backfilling & Restoration of Excavated Areas

The approved pre-excavation grid sampling program provided for the collection of compliance point verification soil samples that have pre-defined the boundaries of the excavation areas. Additionally, post-excavation soil samples will also be collected every 50 feet at the base of the excavations immediately after soil excavation. Therefore, backfilling operations can be conducted immediately upon the excavation of impacted soils to the pre-defined limits and the collection of the proposed post-excavation base samples. Backfilling operations may be conducted before the results of the post-excavation base samples are received from the laboratory. The need to excavate deeper in certain grid areas will be determined based on the results of the post-excavation base samples.

The excavated areas (other than the “Consolidated Material TSCA Disposal Area”) will be backfilled to existing grade utilizing a suitable clean fill material. The clean fill will be brought to grade in 12- to 18-inch compacted intervals, as necessary. Vendors providing clean backfill material will be required to provide, prior to delivery, a certification indicating that the material is from a virgin source or supply analytical data supporting the quality of the material.

The backfilled areas will be graded, as necessary, to coincide with the goals of the overall remediation of this Site and the long-term objectives for this Site. The graded, backfilled areas may also be vegetated (e.g., – seeded) to reduce erosion, based on the long-term objectives for this Site. Silt fence and other erosion control measures will be employed in areas where it is

necessary to prevent soil from eroding during heavy rain events, in accordance with the Soil Erosion and Sediment Control Plan approval from the Bergen County Soil Conservation District.

4.1.5 Construction of Flood Control Berms

Stabilized earthen and rip-rap berms will be constructed around the entire perimeter of the “Consolidated Material TSCA Disposal Area” and the “Former On-Site Pond TSCA Disposal Area”, as shown on Figure 1. The earthen berms installed along the west, north and south sides of the TSCA Disposal Areas will be approximately 12-15 feet wide. The berm along the east side of TSCA Disposal Areas will be approximately 25 feet wide and will consist of compacted soil that is protected with an 18-inch thick layer of rip-rap along the eastern slope. The perimeter berms will be sloped at a 3:1 ratio, and the exposed compacted soil portions of the berms will be properly vegetated for erosion control. The berm along the west side of the TSCA Disposal Areas will be equipped with two (2) asphalt paved or gravel covered ingress/egress driveways to provide vehicle access to the top, asphalt-capped surface of the TSCA Disposal Areas. Soils used for the berm construction will be imported certified clean fill material.

The berms will be installed to a height of at least 1 foot above the 100 year flood elevation of the Hackensack River.

4.1.6 Additional Engineering & Institutional Controls

The Arsynco site will require both institutional controls (i.e., a Deed Notice) and engineering controls (e.g., caps, perimeter fencing, signs, etc.) as part of the EPA Approval and as part of other site remediation efforts being conducted under the supervision of NJDEP. Due to the levels and distribution of contaminants that will remain, virtually the entire property will be covered under the Deed Notice, including the two (2) TSCA Disposal Areas. The implementation of institutional and engineering controls is required by NJDEP to ensure that contaminant concentrations remaining in site soils will not pose an unreasonable threat to human health during future site use and to ensure that remaining contamination is properly managed.

As part of the Deed Notice that will be required by NJDEP, a monitoring and maintenance plan will be developed for the site which details the procedures that will be used to maintain and to periodically evaluate the condition and effectiveness of controls (i.e., maintain condition of asphalt cap and/or building cap, berms, etc.). The Deed Notice will also prohibit alteration, improvement or disturbance of the engineering controls without first obtaining written consent from NJDEP, although written consent from NJDEP is not required in certain circumstances (e.g., emergencies). In addition to the Deed Notice, Arsynco will apply for a Remedial Action Permit for Soil, as required by NJDEP regulations.

Following construction of the cap remedy Arsynco will prepare a Deed Notice in accordance with 40 C.F.R. § 761.61(a)(8) and New Jersey law. The Deed Notice will, at a minimum, pertain to the two TSCA Disposal Areas. The Deed Notice will be consistent with EPA and NJDEP requirements and will include: a description of the extent of contamination found at the site; a description of the removal action, establishment of the TSCA Disposal Areas, and the cap remedy; survey information necessary to identify the precise locations of the TSCA Disposal Areas; the restrictions on use included in Section 7 of the EPA Approval; a description of monitoring, maintenance, and reporting requirements required by the EPA Approval, and a copy of the EPA Approval appended as an attachment. As required, the final format of this information in the Deed Notice must be approved in writing by the Director of the Division of Enforcement and Compliance Assistance for EPA Region 2.

In addition to establishing a Deed Notice, Arsynco will construct and maintain a six-foot high chain link fence around the entire site, with the exception of the far east side of the site along Sixteenth Street. This side of the site currently contains a four-foot high fence, and a variance from the New Jersey Meadowlands Commission would be required to construct a six-foot high fence along this area. As agreed with EPA, Arsynco will use its best efforts to obtain the necessary approvals to ensure that the entire site is enclosed by a six-foot high fence. However, in the event that the necessary approvals to construct a six-foot high fence along Sixteenth Street can not be reasonably obtained, Arsynco will improve as necessary and maintain the four-foot high fence along Sixteenth Street. If a six-foot high fence cannot be installed along Sixteenth Street, Arsynco will construct a six-foot high fence along the east side of Tract 1 that borders

Tract 2. Placement of the six-foot high fence along the east side of Tract 1 would result in the full enclosure of the entire Tract 1 parcel, including both TSCA Disposal Areas. The fence(s) will be maintained and marked, at intervals of not less than 25 feet on each side, with signs as specified in 40 C.F.R. 761.45(a), in perpetuity, or until the PCB contaminated materials are removed from the site, to prevent entry of trespassers.

4.1.7 Long Term Monitoring and Maintenance

4.1.7.1 Monitoring Well Installation and Sampling

Following the construction of the cap and berm controls, Arsynco will install shallow and deep monitoring well clusters constructed in their entirety with stainless steel or Teflon, with screen intervals of not greater than 10 feet, up-gradient and down-gradient of both TSCA Disposal Areas. Deep wells shall be double cased to prevent migration of contamination from the shallow to the deep zone. At minimum, one up-gradient and two down-gradient well clusters will be installed, which are in addition to the wells already located adjacent to the east side of the former pond (MW-9S/D and MW-10S/D clusters) which will be maintained, if possible, or replaced following the remedial activities required at the Site. The proposed number, depths, and locations of the new well clusters will be submitted to EPA for their approval at least 30 days in advance of installation. Groundwater samples from the new wells will be collected on a quarterly basis, and to the extent practicable within 24 hours of a precipitation event of greater than or equal to 0.25 inches as determined at Newark International Airport, and during a period of “high tide” groundwater elevations at the site. The wells will be sampled using the “Low Flow” method described at <http://www.epa.gov/Region2/desa/hsw/lowflow.pdf>. The EPA Approval specifies that the groundwater samples collected from these wells will be analyzed for PCBs using EPA Method 525.2. Arsynco requests clarification from EPA regarding the analytical method, as EPA Method 525.2 is a drinking water method for semi-volatiles that is not commonly used for PCB analysis. Arsynco proposes to analyze the samples for PCBs using either EPA Method 608 or 8082. These methods are fully capable of achieving detection limits that are in compliance with regulatory thresholds for PCBs in groundwater in Class II-A aquifers in New Jersey, which is the Practical Quantitation Limit (PQL) associated with the New Jersey

Groundwater Quality Criteria (0.5 micrograms per liter). According to the EPA Approval, this PQL (0.5 ug/L) is currently the equivalent to the federal Maximum Contaminant Level (MCL). Action levels for PCBs detected in groundwater will be established in accordance with the requirements of the EPA Approval (i.e. – the more stringent of the federal MCL or the PQL associated with the NJ GWQC). Following receipt of the final report of validated data from the laboratory Arsynco will notify EPA in writing of an exceedance of the action level established, verbally within one (1) working day and in writing within five (5) working days, of Arsynco's receipt of the analytical results from the laboratory analyzing the samples, and not more than 30 calendar days after the collection of the samples.

Please note that in accordance with the EPA Approval, after three (3) years of groundwater monitoring, if sample results are consistently below the action level, Arsynco may request from EPA that the frequency of the monitoring be decreased.

4.1.7.2 Inspection and Maintenance Obligations & Annual Report to EPA

Arsynco will provide EPA Region 2 with an update of the status of the remediation project every three (3) months following the effective date of the EPA Approval until the construction of the TSCA Disposal Areas, removal of PCB contaminated material, disposal of removed PCB contaminated material, and construction of berm, cap, and fencing operations are complete. After the cap, berm, and fences are constructed, Arsynco will visually inspect the cap, berm, and fences quarterly, and maintain the cap as needed. If necessary, the cap, berm, or fence shall be repaired or replaced within 14 working days of the verification of damage or other loss of integrity. Within 14 working days of completion of repairs, Arsynco will submit to EPA Region 2 the following information:

1. notification that the cap, berm, or fences have been breached or otherwise suffered damage or loss of integrity;
2. certification, signed by a professional engineer licensed by the State of New Jersey, that the cap, berm, or fences have been repaired or replaced to a condition not less than that constructed as required by this approval.

The cap will be maintained to prevent access to the contaminated material under the cap and to prevent such material from being released. Arsynco will also, by July 1st of each year, submit to EPA Region 2 an annual written summary report covering the previous reporting period (January through December of the previous year). The Annual Report will provide the following information:

1. reports of visual inspections and maintenance needed to maintain the as-built integrity of the cap, berm, and fences;
2. maintenance reports;
3. information regarding problems maintaining, or apparent breach of, elements of the remedy;
4. groundwater monitoring results including QA/QC samples; and,
5. Documentation required under 40 C.F.R. §761.180(a), as appropriate.

4.2 SITE PLANS

4.2.1 Permits and Approvals

Necessary permits and approvals that are required to conduct this remedial program will be obtained from the appropriate agencies prior to commencement of permit/approval required activities. Potential permits/approvals that may be required for the Site include:

<u>Permit/Approval</u>	<u>Agency</u>	<u>Status</u>
EPA Approval of Engineering & Monitoring Plan	USEPA	<i>Pending</i>
EPA Approval of “Consolidated Material TSCA Disposal Area” location	USEPA	<i>Pending</i>
EPA Approval of the number, depths, and locations of the groundwater monitoring wells to installed (at least 30 days in advance of installation)	USEPA	Future
NJMC Zoning Certificate	NJMC	Future
Soil Erosion and Sediment Control Plan Certification	NJDA, SSCC	Pending

U.S. Army Corps of Engineers Nationwide General Permit #38	USACOE	Received
Flood Hazard Area Individual Permit	NJDEP	Received
Waterfront Development Permit IP In-water	NJDEP	Received
HMC Water Quality Certificate	NJDEP	Received
NJPDES – Discharge to Surface Water Permit	NJDEP	Received
Treatment Works Approval	NJDEP	Pending
Permit to Drill Well	NJDEP	Future

4.2.2 Site Health and Safety Plan

A Site Health and Safety Plan (HASP) for the PCB remediation activities is provided in Appendix E. Please note that this HASP will require review and possibly revision both before and during the site activities.

4.2.3 Air Monitoring Plan

The Air Monitoring Plan for the PCB remediation activities is provided in Appendix F.

4.2.4 Dust Control Plan

Groundwater is typically present at shallow depths throughout most of the Site and the Site frequently has areas containing standing water. The presence of groundwater and standing water greatly diminishes the potential for significant dust migration concerns throughout the project. Dust has not been an issue with the historic activities conducted at the Site. However, dust control measures will be implemented to control fugitive dust emissions during excavation activities. Water will be applied as necessary during excavation and soil movement activities in order to minimize fugitive dust. Water will be obtained from either the on-site connection or from a water truck. The quantity of water applied will be adjusted as necessary to control the actual dust conditions while preventing overuse and the possible offsite migration. Dust monitoring is discussed in the Air Monitoring Plan provided in Appendix F.

4.2.5 Quality Assurance Project Plan

A Quality Assurance Project Plan (QAPP) for the PCB remediation activities is provided in Appendix G.

4.2.6 Soil Erosion and Sediment Control Plan

Since the site activities will involve the disturbance of more than 5,000 square feet of land, certification of a Soil Erosion and Sediment Control Plan by the local Soil Conservation District, which indicates that the plan meets the standards promulgated by the State Soil Conservation Committee, will be obtained. Arsynco has filed the plan with the Bergen County Soil Conservation District and is awaiting formal plan approval.

Soil erosion and sediment control methods will be implemented throughout the duration of the project. Basic engineering measures will be taken to reduce the amount of soil erosion from excavated areas and access road construction. It is expected that staked hay bales or silt fence will be installed at the down-slope edge of the excavation areas and along the south side of Tract 1 adjacent to the drainage ditch and along the east side of Tract 1 adjacent to Tract 2. Erosion controls will be periodically inspected and maintained until soils have become stabilized. Silt fence or hay bales will be installed around the perimeter of the loose materials to prevent rain washouts. Stockpiles will be covered in six-millimeter polyethylene sheeting that will be secured in place. Erosion control matting may also be employed if loose materials cannot be contained utilizing silt fence and straw bales. When operations are completed and the loose soil areas have been stabilized, the silt fence, straw bales and rock will be removed and properly disposed.

4.3 SITE SETUP

4.3.1 Site Security

Site security will be established through temporary and permanent fencing and signage. The entire site is surrounded by chain link fencing. Site access gates will be kept locked when no site work is being conducted. Office trailers and support/staging areas will be established as necessary. Additionally, several security cameras are installed at the site.

4.3.2 Access, Staging Areas and Work Zones

Primary site access will be established from 13th Street. Alternate site access will be from Berry Avenue, as needed. Site preparation activities will include establishment of vehicle parking and equipment staging. Construction of initial erosion control devices will be completed prior to initiation of site work. Specific truck routes will be designated from the work site onto the nearest highways.

There will be a number of different work zones required on the Site based on the location of the areas being excavated as work progresses. Established work zones will be marked with colored tape or flags so that these zones are visible to site personnel. Unauthorized personnel will not be permitted in the work zones. Soil staging areas will be established either directly adjacent to the excavation areas within the work zones or in a separate, designated staging area. Vehicle and equipment decontamination zones will be located adjacent to each work area. Other staging areas for miscellaneous, non-hazardous site materials, supplies, etc. will be established on the site, as needed.

4.3.3 Equipment & Vehicle Decontamination

To reduce the possibility of cross-contamination, reusable non-dedicated sampling equipment such as stainless steel hand auger samplers will be decontaminated between each sample location in accordance with the SOPs provided in the QAPP (Appendix G). Where possible, disposable

items will be utilized (i.e., dedicated acetate liners) to reduce the potential for cross-contamination. Equipment will be decontaminated before sample collection at or near the boring location.

Construction equipment (e.g., – excavators, loaders, dump trucks, and necessary support vehicles, etc.) will be allowed within the impacted areas. Off-site soil transport vehicles will not be allowed to unnecessarily drive on impacted areas of the site and will be limited to gravel vehicle access roads, staging areas and the work zones. Prior to leaving the site, transport vehicles will be inspected for accumulated bulk material on the truck sides and tires. If present, accumulated material will be removed using dry methods (e.g., – brooms, shovels) in order to prevent tracking onto public roadways. This cleaning will be done before the trucks leave the work areas. Signage will be posted at the construction exit indicating that trucks should be inspected by a Site representative prior to exiting.

Decontamination stations will be created near the individual work areas for equipment and vehicles, as necessary, and will generally consist of an impermeable barrier or gravel bed that is sloped to a collection sump. Decontamination fluids (water) will be collected using temporary systems (e.g., – drums, tanks and pumps). Equipment cleaning will be performed first by dry methods to remove bulk material, followed by high-pressure, low-volume power washing, as needed, to remove residual material. Decontamination fluids will be collected and containerized for subsequent off-site disposal or on-site treatment and discharge or disposal in accordance with an appropriate NJDEP permit.

4.3.4 Land-Clearing (Tree and Brush Removal)

Brush and trees will be removed, as necessary from the site before remediation work begins. Above-grade vegetation will be properly disposed off-site at a facility permitted to accept vegetative wastes. Larger trees may be chipped and used on-site. Below grade vegetation (i.e., - root balls) will be removed, as necessary, and as much adhered soil as possible will be removed at the location of origin. Following the removal of excessive soils, the below grade vegetative

wastes will be staged on poly sheeting, sampled and, if necessary, disposed off-site based on as-found PCB concentrations.

4.3.5 Water Runoff Containment and Control

The Site is essentially flat, with no significant slopes promoting runoff. Most water from precipitation events ponds in low spots on the property and infiltrates into the ground. Some runoff occurs along the southern property boundary adjacent to the ditch that separates the Arsynco and Cosan Chemical properties, along the east side of Tract 1 at the Tract 2 border, and along the west side of Tract 1, adjacent to the off-site railroad tracks. Water may also be generated from dust control measures that could be employed during the program.

As noted in Section 4.2.6, appropriate soil erosion and sediment control measures will be employed and maintained at the Site and in the areas of excavation to reduce or eliminate the flow of contaminated rainwater from the Site.

4.3.6 Excavation Water Control and Handling

Groundwater is encountered within the fill material overburden at various depths ranging from between 0.5 to 3.0+ feet below grade. Although various contaminants have been detected in the groundwater at the Site, PCBs have not adversely affected groundwater quality. However, the amounts of suspended solids that will be present in the water as a result of the excavation disturbances could result in the presence of PCB in excavation water due to the solids.

It is possible that groundwater encountered in some areas during the excavation activities will require removal via pumping. Prior to excavation activities, appropriate methods will be in place to handle contaminated groundwater that must be removed to accommodate the excavation and backfilling activities. Groundwater that must be removed will be pumped from the excavations into temporary storage tanks that will be staged on-site. The water from the storage tanks will either be properly disposed off-site or will be treated on-site, if necessary, and discharged either back to groundwater or to surface water. A NJPDES Discharge to Surface Water Permit has

already been obtained from NJDEP and a Treatment Works Approval is pending in the event that on-site treatment and discharge to on-site surface water is conducted during the project. It is also possible that dewatered groundwater will be treated and discharged to the sanitary sewer system operated by the Bergen County Utilities Authority (BCUA), which would also require an appropriate permit.

4.3.7 Spill Prevention

Preventing spills of hazardous substances or wastes from occurring is preferable to containing spills that have occurred. Prior to on-site operations, a review will be made to determine potential dangers involved with work practices and to assess the possibilities of discharges of a hazardous substance or waste onto the ground.

Work activities may involve the use of hazardous materials (e.g., fuels, solvents). Efforts will be made to prevent spills, including hydraulic oil or diesel fuel leaking from trucks and heavy equipment. Hazardous material will be stored in its appropriate containers. Tops and lids will be placed back on containers after use and containers of hazardous materials will be appropriately stored away from moving heavy equipment. Leaking hydraulic lines will be addressed and repaired as soon as possible. If a diesel tank is required for re-fueling equipment, it will be equipped with a secondary containment around the primary tank. The fuel tank will be capped, locked, and kept away from direct routes that may lead to the wetland areas.

If an unforeseen oil spill does occur during operations, spill response materials will be readily available on site.

4.3.8 Monitoring Well Protection, Abandonment and Installation

Monitoring wells are protected by steel protective casings or manholes. Prior to commencement of site activities, on-site monitoring wells will be clearly marked to avoid being damaged by site equipment and/or vehicles. A number of monitoring wells that are located in the work areas will

require proper abandonment prior to excavation activities. Well sealing/abandonment will be performed by a New Jersey-licensed well driller.

Following completion of the remedial activities, the installation of site wells will be required for long-term monitoring purposes. These wells will be installed after the completion of the remedial programs by a licensed well drilling subcontractor under permits by NJDEP.

4.4 PRE-MOBILIZATION ACTIVITIES (SUBCONTRACTOR SELECTION & PROCUREMENT)

In order to accomplish the remedial objectives in the most efficient manner it will first be necessary to procure and schedule the required services prior to mobilization of the job site. This must be accomplished in an order that will achieve the Site objectives while minimizing costs and redundant mobilizations and demobilizations.

These services may include but are not limited to: land-clearing, land surveying, Geoprobe/drilling services and/or test pit excavation, monitoring well abandonment, laboratory analytical services, earthwork equipment/operation, waste transporters, waste disposal facility (TSD), supply of clean backfill material for restoring the Site, asphalt paving, etc.

In addition, arrangements must be made for an appropriate site office trailer(s) with electric, phone and internet service, a useable water source installed from the existing site service location, porta-johns, trash removal and equipment rental, as necessary. It may be necessary to conduct some minimal grading activities to support a site trailer.

4.5 MOBILIZATION

Once the pre-mobilization activities have been completed, the required permits and approvals have been obtained, and the overall workplan and an updated HASP have been completed and approved, mobilization can begin. Initial activities will include tree removal and site clearing, monitoring well abandonment, installation of erosion controls measures, construction of

temporary haul roads and appropriate site entrance/exit and staging areas, and setup of site work zones, decontamination zones and support zones. Future tasks will include soil excavation, soil consolidation, backfilling/restoration, cap and berm construction, fencing installation and monitoring well installation.

5.0 SCHEDULE

The estimated project schedule is provided in Appendix H.

TABLE 1
ARSYNCO, INC
CARLSTADT, NJ
TRACT 1 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
C-29	G-34E	6/2/1995	W of G-34	0-0.5	ND	0.37	ND	ND	NA	NA	0.37
	G-34F	6/8/1995	W of G-34	3.0-3.5	ND	ND	ND	ND	NA	NA	0
C-30	C-30 (0-1.0)	10/17/2012	10545-022	0.0-1.0	ND	2.9	ND	ND	ND	ND	2.9
	C-30 (1.0-2.0)	10/17/2012	10545-023	1.0-2.0	ND	ND	1.09	ND	ND	ND	1.09
	C-30 (2.0-4.0)	10/17/2012	10545-024	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	C-30 (4.0-6.0)	10/17/2012	10545-025	4.0-6.0	ND	ND	ND	ND	ND	ND	0
C-31	C-31 (0-2.0)	9/10/2012	09161-025	0.0-2.0	ND	5.25	ND	ND	ND	ND	5.25
	C-31 (2.0-3.0)	9/10/2012	09161-026	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	C-31 (3.0-4.0)	9/10/2012	09161-027	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	C-31 (4.0-6.0)	9/10/2012	09161-028	4.0-6.0	ND	ND	ND	ND	ND	ND	0
C-32	C-32 (0-2.0)	9/7/2012	09128-013	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	C-32 (2.0-4.0)	9/7/2012	09128-014	2.0-4.0	ND	0.288	ND	ND	ND	ND	0.288
D-29	D-29 (0-2.0)	10/17/2012	10545-026	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	D-29 (2.0-3.25)	10/17/2012	10545-027	2.0-3.25	ND	ND	ND	ND	ND	ND	0
	D-29 (3.25-4.0)	10/17/2012	10545-028	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	D-29 (4.0-6.0)	10/17/2012	10545-029	4.0-6.0	ND	ND	ND	ND	ND	ND	0
D-30	D-30 (0-2.0)	10/17/2012	10545-019	0.0-2.0	ND	ND	0.416	ND	ND	ND	0.416
	D-30 (2.0-4.0)	10/17/2012	10545-020	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	D-30 (4.0-6.0)	10/17/2012	10545-021	4.0-6.0	ND	ND	ND	ND	ND	ND	0
D-31	D-31 (0-2.0)	9/10/2012	09161-021	0.0-2.0	ND	56.8	ND	ND	ND	ND	56.8
	D-31 (2.0-4.0)	9/10/2012	09161-022	2.0-4.0	ND	2.29	ND	ND	ND	ND	2.29
	D-31 (4.0-5.0)	9/10/2012	09161-023	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	D-31 (5.0-6.0)	9/10/2012	09161-024	5.0-6.0	ND	ND	ND	ND	ND	ND	0
D-31N	D-31N (0-2.0)	5/3/2013	04119-034	0.0-2.0	ND	2.31	1.3	ND	ND	ND	3.61
D-31W	D-31W (0-2.0)	5/3/2013	04119-035	0.0-2.0	ND	40.5	ND	ND	ND	ND	40.5
D-32	D-32 (0.0-2.0)	7/27/2012	07626-025	0.0-2.0	ND	46.6	ND	ND	ND	ND	46.6
	D-32 (2.0-4.0)	7/27/2012	07626-026	2.0-4.0	ND	80.5	ND	ND	ND	ND	80.5
	D-32 (4.0-4.5)	7/27/2012	07626-027	4.0-4.5	ND	0.549	ND	ND	ND	ND	0.549
	D-32 (4.5-6.0)	7/27/2012	07626-028	4.5-6.0	ND	ND	ND	ND	ND	ND	0
D-32N	D-32N (0-2.0)	5/3/2013	04119-032	0.0-2.0	ND	37.2	ND	ND	ND	ND	37.2
	D-32N (2.0-4.0)	5/3/2013	04119-033	2.0-4.0	ND	23.1	ND	ND	ND	ND	23.1
D-32S	D-32S (2.0-4.0)	9/11/2013	08939-001	2.0-4.0	ND	2.97	ND	ND	ND	ND	2.97
D-33	D-33 (0-2.0)	9/6/2012	09052-007	0.0-2.0	ND	2.95	ND	ND	ND	ND	2.95
	D-33 (2.0-4.0)	9/6/2012	09052-008	2.0-4.0	ND	1.24	ND	ND	ND	ND	1.24
	G-34C	6/2/1995	S of G-34	0-0.5	ND	0.097	ND	ND	NA	NA	0.097
	G-34D	6/9/1995	S of G-34	3-3.5	ND	ND	ND	ND	NA	NA	0
D-34	D-34 (0-2.0)	9/6/2012	09052-009	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	D-34 (2.0-4.0)	9/6/2012	09052-010	2.0-4.0	ND	ND	ND	ND	ND	ND	0
E-29	E-29 (0-2.0)	10/17/2012	10545-030	0.0-2.0	ND	0.182	ND	ND	ND	ND	0.182
	E-29 (2.0-3.0)	10/17/2012	10545-031	2.0-3.0	ND	0.745	ND	ND	ND	ND	0.745
	E-29 (3.0-4.0)	10/17/2012	10545-032	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	E-29 (4.0-6.0)	10/17/2012	10545-033	4.0-6.0	ND	ND	ND	ND	ND	ND	0
E-30	E-30 (0-2.0)	10/17/2012	10545-015	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	E-30 (2.0-2.5)	10/17/2012	10545-016	2.0-2.5	ND	34.9	ND	ND	ND	ND	34.9
	E-30 (2.5-4.0)	10/17/2012	10545-017	2.5-4.0	ND	ND	ND	ND	ND	ND	0
	E-30 (4.0-6.0)	10/17/2012	10545-018	4.0-6.0	ND	ND	ND	ND	ND	ND	0
E-31	E-31 (0-2.0)	9/10/2012	09161-017	0.0-2.0	ND	69.2	ND	ND	ND	ND	69.2
	E-31 (2.0-4.0)	9/10/2012	09161-018	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	E-31 (4.0-5.0)	9/10/2012	09161-019	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	E-31 (5.0-6.0)	9/10/2012	09161-020	5.0-6.0	ND	ND	ND	ND	ND	ND	0
E-31N	E-31N (0-2.0)	5/3/2013	04119-036	0.0-2.0	ND	1.99	1.04	ND	ND	ND	3.03
E-32	E-32 (0.0-2.0)	7/27/2012	07626-021	0.0-2.0	ND	36	ND	ND	ND	ND	36
	E-32 (2.0-4.0)	7/27/2012	07626-022	2.0-4.0	ND	81.7	ND	ND	ND	ND	81.7
	E-32 (4.0-4.5)	7/27/2012	07626-023	4.0-4.5	ND	3.65	ND	ND	ND	ND	3.65
	E-32 (4.5-6.0)	7/27/2012	07626-024	4.5-6.0	ND	ND	ND	ND	ND	ND	0
E-33	E-33 (0-2.0)	7/9/2012	06784-047	0.0-2.0	ND	50.8	ND	ND	ND	ND	50.8
	E-33 (2.0-4.0)	7/9/2012	06784-048	2.0-4.0	ND	49.4	ND	ND	ND	ND	49.4
	E-33 (4.0-6.0)	7/9/2012	06784-049	4.0-6.0	ND	0.26	ND	ND	ND	ND	0.26

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E-33S	E-33S (0-2.0)	8/21/2013	08149-021	0.0-2.0	ND	36.6	ND	ND	ND	ND	36.6
E-33W	E-33W (0-2.0)	5/3/2013	04119-031	0.0-2.0	ND	42.7	ND	ND	ND	ND	42.7
E-34	E-34 (0-2.0)	9/6/2012	09052-011	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	E-34 (2.0-4.0)	9/6/2012	09052-012	2.0-4.0	ND	ND	ND	ND	ND	ND	0
E-35	E-35 (0-2.0)	9/6/2012	09052-013	0.0-2.0	ND	0.481	ND	ND	ND	ND	0.481
	E-35 (2.0-4.0)	9/6/2012	09052-014	2.0-4.0	ND	ND	ND	ND	ND	ND	0
F-28	F-28 (2.0-4.0)	4/4/2013	03068-015	2.0-4.0	ND	ND	ND	0.134	ND	ND	0.134
F-29	F-29 (0-2.0)	10/17/2012	10545-034	0.0-2.0	ND	1.35	ND	ND	ND	ND	1.35
	F-29 (2.0-4.0)	10/17/2012	10545-035	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	F-29 (4.0-6.0)	10/17/2012	10545-036	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	F-29 (6.0-7.5)	10/17/2012	10545-037	6.0-7.5	ND	ND	ND	ND	ND	ND	0
	F-29 (7.5-8.0)	10/17/2012	10545-038	7.5-8.0	ND	ND	ND	ND	ND	ND	0
F-30	F-30 (0-2.0)	10/17/2012	10545-010	0.0-2.0	ND	68.9	ND	ND	ND	ND	68.9
	F-30 (2.0-4.0)	10/17/2012	10545-011	2.0-4.0	ND	1.87	ND	ND	ND	ND	1.87
	F-30 (4.0-6.0)	10/17/2012	10545-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	F-30 (6.0-6.5)	10/17/2012	10545-013	6.0-6.5	ND	ND	ND	ND	ND	ND	0
	F-30 (6.5-8.0)	10/17/2012	10545-014	6.5-8.0	ND	ND	ND	ND	ND	ND	0
F-30N	F-30N (0-2.0)	5/3/2013	04119-038	0.0-2.0	ND	3.69	ND	ND	ND	ND	3.69
F-30W	F-30W (0-2.0)	5/3/2013	04119-037	0.0-2.0	ND	4.67	ND	ND	ND	ND	4.67
F-31	F-31 (0-2.0)	9/10/2012	09161-013	0.0-2.0	ND	19.2	ND	14.2	ND	ND	33.4
	F-31 (2.0-4.0)	9/10/2012	09161-014	2.0-4.0	ND	36.9	ND	ND	ND	ND	36.9
	F-31 (4.0-4.5)	9/10/2012	09161-015	4.0-4.5	ND	138	ND	ND	ND	ND	138
	F-31 (4.5-6.0)	9/10/2012	09161-016	4.5-6.0	ND	3.3	ND	ND	ND	ND	3.3
F-32	F-32 (0.0-2.0)	7/27/2012	07626-017	0.0-2.0	ND	31.2	ND	ND	ND	ND	31.2
	F-32 (2.0-3.0)	7/27/2012	07626-018	2.0-3.0	ND	66.8	ND	ND	ND	ND	66.8
	F-32 (3.0-4.0)	7/27/2012	07626-019	3.0-4.0	ND	4.93	ND	ND	ND	ND	4.93
	F-32 (4.0-6.0)	7/27/2012	07626-020	4.0-6.0	ND	ND	ND	ND	ND	ND	0
F-33	F-33 (0-2.0)	7/9/2012	06784-044	0.0-2.0	ND	60.7	ND	ND	ND	ND	60.7
	F-33 (2.0-4.0)	7/9/2012	06784-045	2.0-4.0	ND	185	ND	ND	ND	ND	185
	F-33 (4.0-6.0)	7/9/2012	06784-046	4.0-6.0	ND	41.2	ND	ND	ND	ND	41.2
F-34	F-34 (0.0-2.0)	7/17/2012	07117-026	0.0-2.0	ND	54.8	ND	ND	ND	ND	54.8
	F-34 (2.0-3.25)	7/17/2012	07117-027	2.0-3.25	ND	101	ND	ND	ND	ND	101
	F-34 (3.25-4.0)	7/17/2012	07117-028	3.25-4.0	ND	1.17	ND	ND	ND	ND	1.17
	F-34 (4.0-6.0)	7/17/2012	07117-029	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	A_1 (0_2.0)	5/21/2014	04618_001	0.0_2.0	0	1.3	0	0	0	0	1.3
	A_1 (2.0_4.0)	5/21/2014	04618_002	2.0_4.0	0	0.661	0	0	0	0	0.661
F-35	F-35 (0-2.0)	7/9/2012	06784-035	0.0-2.0	ND	170	ND	ND	ND	ND	170
	F-35 (2.0-4.0)	7/9/2012	06784-036	2.0-4.0	ND	51.1	ND	ND	ND	ND	51.1
	F-35 (4.0-6.0)	7/9/2012	06784-037	4.0-6.0	ND	0.639	ND	ND	ND	ND	0.639
	A_2 (0_2.0)	5/21/2014	04618_003	0.0_2.0	0	189	0	0	0	0	189
	A_2 (2.0_4.0)	5/21/2014	04618_004	2.0_4.0	0	0.062	0	0	0	0	0.062
F-35S	F-35S (4.0-6.0)	9/11/2013	08939-004	4.0-6.0	ND	ND	ND	ND	ND	ND	0
F-35W	F-35W (0-2.0)	9/11/2013	08939-002	0.0-2.0	ND	0.849	ND	ND	ND	ND	0.849
	F-35W (2.0-4.0)	9/11/2013	08939-003	2.0-4.0	ND	ND	ND	ND	ND	ND	0
F-36	F-36 (0-2.0)	9/6/2012	09052-015	0.0-2.0	ND	0.695	ND	ND	ND	ND	0.695
	F-36 (2.0-4.0)	9/6/2012	09052-016	2.0-4.0	ND	14.6	ND	ND	ND	ND	14.6
G-28	G-28 (2.0-4.0)	4/4/2013	03068-014	2.0-4.0	ND	ND	ND	ND	ND	ND	0
G-29	G-29 (0-2.0)	10/17/2012	10545-039	0.0-2.0	ND	12.4	ND	ND	ND	ND	12.4
	G-29 (2.0-3.25)	10/17/2012	10545-040	2.0-3.25	ND	35.6	ND	ND	ND	ND	35.6
	G-29 (3.25-4.0)	10/17/2012	10545-041	3.25-4.0	ND	100	ND	ND	ND	ND	100
	G-29 (4.0-6.0)	10/17/2012	10545-042	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-29 (6.0-8.0)	10/17/2012	10545-043	6.0-8.0	ND	ND	ND	ND	ND	ND	0
G-30	G-30 (0-2.0)	10/17/2012	10545-005	0.0-2.0	ND	109	ND	ND	ND	ND	109
	G-30 (2.0-4.0)	10/17/2012	10545-006	2.0-4.0	ND	0.211	ND	ND	ND	ND	0.211
	G-30 (4.0-5.5)	10/17/2012	10545-007	4.0-5.5	ND	1.12	ND	ND	ND	ND	1.12
	G-30 (5.5-6.0)	10/17/2012	10545-008	5.5-6.0	ND	ND	ND	ND	ND	ND	0
	G-30 (6.0-8.0)	10/17/2012	10545-009	6.0-8.0	ND	ND	ND	ND	ND	ND	0

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
G-31	G-31 (0-2.0)	9/10/2012	09161-008	0.0-2.0	ND	105	ND	ND	ND	ND	105
	G-31 (2.0-4.0)	9/10/2012	09161-009	2.0-4.0	ND	5.48	ND	ND	ND	ND	5.48
	G-31 (4.0-6.0)	9/10/2012	09161-010	4.0-6.0	ND	8.79	ND	ND	ND	ND	8.79
	G-31 (6.0-7.0)	9/10/2012	09161-011	6.0-7.0	ND	ND	ND	ND	ND	ND	0
	G-31 (7.0-8.0)	9/10/2012	09161-012	7.0-8.0	ND	ND	ND	ND	ND	ND	0
G-32	G-32 (0.0-2.0)	7/27/2012	07626-013	0.0-2.0	ND	49.6	ND	ND	ND	ND	49.6
	G-32 (2.0-3.0)	7/27/2012	07626-014	2.0-3.0	ND	0.151	ND	ND	ND	ND	0.151
	G-32 (3.0-4.0)	7/27/2012	07626-015	3.0-4.0	ND	6.74	ND	ND	ND	ND	6.74
	G-32 (4.0-6.0)	7/27/2012	07626-016	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-34A	11/14/1994	G-34	0.0-0.5	ND	140	ND	ND	NA	NA	140
	G-34B	11/14/1994	G-34	3.25-3.75	ND	69	ND	ND	NA	NA	69
	G-34N	6/8/1995	G-34 Native	6.0-6.5	ND	3.8	ND	ND	NA	NA	3.8
G-33	G-33 (0-2.0)	7/9/2012	06784-041	0.0-2.0	ND	190	ND	ND	ND	ND	190
	G-33 (2.0-4.0)	7/9/2012	06784-042	2.0-4.0	ND	136	ND	ND	ND	ND	136
	G-33 (4.0-6.0)	7/9/2012	06784-043	4.0-6.0	ND	35.3	ND	ND	ND	ND	35.3
G-34	G-34 (0-2.0)	7/9/2012	06784-038	0.0-2.0	ND	40.1	ND	ND	ND	ND	40.1
	G-34 (2.0-4.0)	7/9/2012	06784-039	2.0-4.0	ND	13.5	ND	ND	ND	ND	13.5
	G-34 (4.0-6.0)	7/9/2012	06784-040	4.0-6.0	ND	ND	ND	ND	ND	ND	0
G-35	G-35 (0-2.0)	7/9/2012	06784-031	0.0-2.0	ND	53	ND	ND	ND	ND	53
	G-35 (2.0-4.0)	7/9/2012	06784-032	2.0-4.0	ND	44	ND	ND	ND	ND	44
	G-35 (4.0-6.0)	7/9/2012	06784-033	4.0-6.0	ND	66.1	ND	ND	ND	ND	66.1
	G-35 (6.0-8.0)	7/9/2012	06784-034	6.0-8.0	ND	24.7	ND	ND	ND	ND	24.7
G-35S	G-35S (2.0-4.0)	9/11/2013	08939-005	2.0-4.0	ND	0.149	ND	ND	ND	ND	0.149
G-36	G-36 (0-2.0)	9/6/2012	09052-017	0.0-2.0	ND	0.741	ND	ND	ND	ND	0.741
	G-36 (2.0-4.0)	9/6/2012	09052-018	2.0-4.0	ND	1.48	ND	ND	ND	ND	1.48
	A_3 (0_2.0)	5/21/2014	04618_005	0.0_2.0	0	23.3	0	0	0	0	23.3
G-37	G-37 (0-2.0)	9/7/2012	09128-011	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	G-37 (2.0-4.0)	9/7/2012	09128-012	2.0-4.0	ND	ND	ND	ND	ND	ND	0
H-26	G-27C	6/2/1995	W of G-27	0-0.5	ND	0.29	ND	ND	NA	NA	0.29
	G-27D	6/8/1995	W of G-27	2.0-2.5	ND	ND	ND	ND	NA	NA	0
H-28	H-28 (2.0-4.0)	4/4/2013	03068-013	2.0-4.0	ND	3.01	ND	0.619	ND	ND	3.629
H-29	H-29 (0-2.0)	10/17/2012	10545-044	0.0-2.0	ND	6.42	ND	ND	ND	ND	6.42
	H-29 (2.0-4.0)	10/17/2012	10545-045	2.0-4.0	ND	0.449	ND	ND	ND	ND	0.449
	H-29 (4.0-5.0)	10/17/2012	10545-046	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	H-29 (5.0-5.5)	10/17/2012	10545-047	5.0-5.5	ND	0.198	ND	ND	ND	ND	0.198
	H-29 (5.5-6.0)	10/17/2012	10545-048	5.5-6.0	ND	ND	ND	ND	ND	ND	0
H-30	H-30 (0-2.0)	10/17/2012	10545-001	0.0-2.0	ND	0.086	ND	ND	ND	ND	0.086
	H-30 (2.0-4.0)	10/17/2012	10545-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	H-30 (4.0-4.5)	10/17/2012	10545-003	4.0-4.5	ND	0.16	ND	ND	ND	ND	0.16
	H-30 (4.5-6.0)	10/17/2012	10545-004	4.5-6.0	ND	ND	ND	ND	ND	ND	0
H-31	H-31 (0-2.0)	9/10/2012	09161-004	0.0-2.0	ND	2.5	ND	ND	ND	ND	2.5
	H-31 (2.0-4.0)	9/10/2012	09161-005	2.0-4.0	ND	0.054	ND	ND	ND	ND	0.054
	H-31 (4.0-5.0)	9/10/2012	09161-006	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	H-31 (5.0-6.0)	9/10/2012	09161-007	5.0-6.0	ND	ND	ND	ND	ND	ND	0
H-32	H-32 (0.0-2.0)	7/27/2012	07626-009	0.0-2.0	ND	9.01	ND	ND	ND	ND	9.01
	H-32 (2.0-4.0)	7/27/2012	07626-010	2.0-4.0	ND	1.28	ND	ND	ND	ND	1.28
	H-32 (4.0-5.25)	7/27/2012	07626-011	4.0-5.25	ND	64.2	ND	ND	ND	ND	64.2
	H-32 (5.25-6.0)	7/27/2012	07626-012	5.25-6.0	22.7	ND	ND	ND	ND	ND	22.7
H-33	H-33 (0.0-2.0)	7/17/2012	07117-018	0.0-2.0	ND	131	ND	ND	ND	ND	131
	H-33 (2.0-3.25)	7/17/2012	07117-019	2.0-3.25	ND	0.22	ND	ND	ND	ND	0.22
	H-33 (3.25-4.0)	7/17/2012	07117-020	3.25-4.0	ND	1.33	ND	ND	ND	ND	1.33
	H-33 (4.0-6.0)	7/17/2012	07117-021	4.0-6.0	ND	ND	ND	ND	ND	ND	0
H-34	H-34 (0.0-2.0)	7/11/2012	06899-046	0.0-2.0	ND	64	ND	ND	ND	ND	64
	H-34 (2.0-4.0)	7/11/2012	06899-047	2.0-4.0	ND	4.21	ND	ND	ND	ND	4.21
	H-34 (4.0-6.0)	7/11/2012	06899-048	4.0-6.0	ND	ND	ND	ND	ND	ND	0
H-35	H-35 (0.0-2.0)	7/11/2012	06899-043	0.0-2.0	ND	25.4	ND	ND	ND	ND	25.4
	H-35 (2.0-4.0)	7/11/2012	06899-044	2.0-4.0	ND	143	ND	ND	ND	ND	143
	H-35 (4.0-6.0)	7/11/2012	06899-045	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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H-36	H-36 (0-2.0)	7/9/2012	06784-028	0.0-2.0	ND	1620	ND	ND	ND	ND	1620
	H-36 (2.0-4.0)	7/9/2012	06784-029	2.0-4.0	ND	155	ND	ND	ND	ND	155
	H-36 (4.0-6.0)	7/9/2012	06784-030	4.0-6.0	ND	736	ND	ND	ND	ND	736
	H-36 (5.0-6.0)	9/10/2012	09161-037	5.0-6.0	ND	132	ND	ND	ND	ND	132
	H-36 (5.5-6.0)	8/7/2012	07988-039	5.5-6.0	ND	ND	ND	ND	ND	ND	0
	H-36 (6.0-6.5)	8/7/2012	07988-040	6.0-6.5	ND	ND	ND	ND	ND	ND	0
	H-36 (6.0-7.0)	9/10/2012	09161-038	6.0-7.0	ND	ND	ND	ND	ND	ND	0
	H-36 (7.0-8.0)	9/10/2012	09161-039	7.0-8.0	ND	ND	ND	ND	ND	ND	0
	I_1 (0_2.0)	5/21/2014	04618_006	0.0-2.0	0	0.739	0	0	0	0	0.739
H-36E	H-36E (0-2.0)	5/3/2013	04119-007	0.0-2.0	ND	5390	ND	ND	ND	ND	5390
	H-36E (4.0-6.0)	5/3/2013	04119-008	4.0-6.0	ND	8.1	ND	ND	ND	ND	8.1
H-36N	H-36N (0-2.0)	5/3/2013	04119-019	0.0-2.0	ND	40.5	ND	ND	ND	ND	40.5
	H-36N (4.0-6.0)	5/3/2013	04119-020	4.0-6.0	ND	ND	ND	ND	ND	ND	0
H-36S	H-36S (0-2.0)	5/3/2013	04119-005	0.0-2.0	ND	1300	ND	ND	ND	ND	1300
	H-36S (4.0-6.0)	5/3/2013	04119-006	4.0-6.0	ND	ND	ND	ND	ND	ND	0
H-36W	H-36W (0-2.0)	5/3/2013	04119-017	0.0-2.0	ND	115	ND	ND	ND	ND	115
	H-36W (4.0-6.0)	5/3/2013	04119-018	4.0-6.0	ND	ND	ND	ND	ND	ND	0
H-37	H-37 (0-2.0)	7/9/2012	06784-019	0.0-2.0	ND	410	ND	ND	ND	ND	410
	H-37 (2.0-4.0)	7/9/2012	06784-020	2.0-4.0	ND	5.22	ND	ND	ND	ND	5.22
	H-37 (4.0-6.0)	7/9/2012	06784-021	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-33B(S)	11/20/1995	S of G-33B	3.0-3.5	ND	476	ND	ND	NA	NA	476
H-37W	H-37W (2.0-4.0)	9/12/2013	08996-003	2.0-4.0	0	0.174	0	0	0	0	0.174
H-38	H-38 (0-2.0)	9/7/2012	09128-009	0.0-2.0	ND	0.711	ND	ND	ND	ND	0.711
	H-38 (2.0-4.0)	9/7/2012	09128-010	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	G-33D	6/9/1995	S of G-33	3.0-3.5	ND	0.096	ND	0.12	NA	NA	0.216
	G-33C	6/2/1995	S of G-33	0-0.5	ND	0.14	0.074	ND	NA	NA	0.214
	B_1 (0_2.0)	5/22/2014	04658_009	0.0-2.0	0	1.11	0	0	0	0	1.11
H-38S	H-38S (0-2.0)	9/12/2013	08996-001	0.0-2.0	ND	85.5	ND	ND	ND	ND	85.5
H-38S	H-38S (2.0-4.0)	9/12/2013	08996-002	2.0-4.0	0	0	0	0	0	0	0
H-39	H-39 (0-2.0)	9/6/2012	09052-019	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	H-39 (2.0-4.0)	9/6/2012	09052-020	2.0-4.0	ND	ND	ND	ND	ND	ND	0
H-39S	H-39S (0-2.0)	9/10/2013	08844-005	0.0-2.0	ND	3.15	ND	ND	ND	ND	3.15
	H-39S (2.0-4.0)	9/10/2013	08844-006	2.0-4.0	ND	ND	ND	ND	ND	ND	0
I-31	I-31 (0-2.0)	9/10/2012	09161-001	0.0-2.0	ND	3.34	ND	ND	ND	ND	3.34
	I-31 (2.0-4.0)	9/10/2012	09161-002	2.0-4.0	ND	0.071	ND	ND	ND	ND	0.071
	I-31 (4.0-6.0)	9/10/2012	09161-003	4.0-6.0	ND	ND	ND	ND	ND	ND	0
I-32	I-32 (0-2.0)	9/10/2012	09161-029	0.0-2.0	ND	36.9	ND	ND	ND	ND	36.9
	I-32 (2.0-4.0)	9/10/2012	09161-030	2.0-4.0	ND	0.098	ND	ND	ND	ND	0.098
	I-32 (4.0-5.0)	9/10/2012	09161-031	4.0-5.0	ND	29.2	ND	ND	ND	ND	29.2
	I-32 (5.0-5.5)	9/10/2012	09161-032	5.0-5.5	ND	2.75	ND	ND	ND	ND	2.75
	I-32 (5.5-6.0)	9/10/2012	09161-049	5.5-6.0	ND	0.182	ND	ND	ND	ND	0.182
I-33	I-33 (0.0-2.0)	8/7/2012	07988-035	0.0-2.0	ND	75.1	ND	ND	ND	ND	75.1
	I-33 (2.0-4.0)	8/7/2012	07988-036	2.0-4.0	ND	0.072	ND	ND	ND	ND	0.072
	I-33 (4.0-4.75)	8/7/2012	07988-037	4.0-4.75	2.66	ND	ND	ND	ND	ND	2.66
	I-33 (4.75-6.0)	8/7/2012	07988-038	4.75-6.0	ND	8850	ND	ND	ND	ND	8850
	I-33 (5.0-6.0)	9/10/2012	09161-033	5.0-6.0	ND	256	ND	ND	ND	ND	256
	I-33 (6.0-7.0)	9/10/2012	09161-034	6.0-7.0	ND	ND	ND	ND	ND	ND	0
	I-33 (7.0-8.0)	9/10/2012	09161-035	7.0-8.0	ND	0.047	ND	0.031	ND	ND	0.078
I-33E	I-33E (4.0-6.0)	5/3/2013	04119-028	4.0-6.0	ND	7520	ND	ND	ND	ND	7520
I-33N	I-33N (4.0-6.0)	5/3/2013	04119-029	4.0-6.0	1.07	ND	ND	ND	ND	ND	1.07
I-33S	I-33S (4.0-6.0)	5/3/2013	04119-027	4.0-6.0	2.26	ND	ND	ND	ND	ND	2.26
I-33W	I-33W (4.0-6.0)	5/3/2013	04119-030	4.0-6.0	ND	121000	ND	ND	ND	ND	121000
I-34	I-34 (0.0-2.0)	7/11/2012	06899-040	0.0-2.0	ND	122	ND	ND	ND	ND	122
	I-34 (2.0-4.0)	7/11/2012	06899-041	2.0-4.0	ND	0.096	ND	0.067	ND	ND	0.163
	I-34 (4.0-6.0)	7/11/2012	06899-042	4.0-6.0	ND	0.13	ND	ND	ND	ND	0.13

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I-35	I-35 (0.0-2.0)	7/17/2012	07117-022	0.0-2.0	ND	135	ND	ND	ND	ND	135
	I-35 (2.0-3.75)	7/17/2012	07117-023	2.0-3.75	ND	1010	ND	ND	ND	ND	1010
	I-35 (4.0-5.0)	7/17/2012	07117-024	4.0-5.0	ND	1.12	ND	ND	ND	ND	1.12
	I-35 (5.0-6.0)	7/17/2012	07117-025	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	ADS-BG	Jun-92	G-33	0-0.5							20
I-35E	I-35E (0-2.0)	5/3/2013	04119-024	0.0-2.0	ND	2970	ND	ND	ND	ND	2970
	I-35E (2.0-4.0)	5/3/2013	04119-023	2.0-4.0	ND	1.52	ND	ND	ND	ND	1.52
I-35N	I-35N (2.0-4.0)	5/3/2013	04119-025	2.0-4.0	ND	ND	ND	ND	ND	ND	0
I-35S	I-35S (2.0-4.0)	5/3/2013	04119-022	2.0-4.0	ND	143	ND	ND	ND	ND	143
I-35W	I-35W (2.0-4.0)	5/3/2013	04119-021	2.0-4.0	ND	1.57	ND	ND	ND	ND	1.57
I-36	I-36 (0.0-2.0)	7/11/2012	06899-037	0.0-2.0	ND	185	ND	ND	ND	ND	185
	I-36 (2.0-4.0)	7/11/2012	06899-038	2.0-4.0	ND	134	ND	ND	ND	ND	134
	I-36 (4.0-6.0)	7/11/2012	06899-039	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-33B(W)	11/20/1995	W of G-33B	3.0-3.5	ND	6.04	ND	ND	NA	NA	6.04
I-37	I-37 (0-2.0)	7/9/2012	06784-022	0.0-2.0	ND	1070	ND	ND	ND	ND	1070
	I-37 (2.0-4.0)	7/9/2012	06784-023	2.0-4.0	ND	305	ND	ND	ND	ND	305
	I-37 (4.0-6.0)	7/9/2012	06784-024	4.0-6.0	ND	0.377	ND	ND	ND	ND	0.377
	G-33B	11/14/1994	G-33	3.0-3.5	ND	2100	ND	ND	NA	NA	2100
	G-33A	11/14/1994	G-33	0.25-0.75	ND	62	ND	ND	NA	NA	62
	G-33N	6/9/1995	G-33 Native	6.0-6.5	ND	ND	ND	ND	NA	NA	0
I-37N	I-37N (0-2.0)	5/3/2013	04119-002	0.0-2.0	ND	4090	ND	ND	ND	ND	4090
I-37S	I-37S (0-2.0)	5/3/2013	04119-003	0.0-2.0	ND	700	ND	ND	ND	ND	700
I-37W	I-37W (0-2.0)	5/3/2013	04119-004	0.0-2.0	ND	5510	ND	ND	ND	ND	5510
I-38	I-38 (0-2.0)	7/9/2012	06784-016	0.0-2.0	ND	49.5	ND	ND	ND	ND	49.5
	I-38 (2.0-4.0)	7/9/2012	06784-017	2.0-4.0	ND	393	ND	ND	ND	ND	393
	I-38 (4.0-6.0)	7/9/2012	06784-018	4.0-6.0	ND	183	ND	ND	ND	ND	183
	I-38 (5.0-5.5)	8/10/2012	08167-021	5.0-5.5	ND	ND	ND	ND	ND	ND	0
	I-38 (6.0-6.5)	8/10/2012	08167-022	6.0-6.5	ND	ND	ND	ND	ND	ND	0
	2_1 (0-2.0)	5/22/2014	04658_001	0.0-2.0	0	855	0	0	0	0	855
I-39	I-39 (0.0-2.0)	7/11/2012	06899-013	0.0-2.0	ND	626	ND	107	ND	ND	733
	I-39 (2.0-4.0)	7/11/2012	06899-014	2.0-4.0	ND	363	ND	ND	ND	ND	363
	I-39 (4.0-6.0)	7/11/2012	06899-015	4.0-6.0	ND	2.1	ND	ND	ND	ND	2.1
	D_3 (2.0-4.0)	5/22/2014	04658_007	2.0-4.0	0	0	0	0	0	0	0
I-39E	I-39E(0-2.0)	5/2/2013	04028-021	0.0-2.0	ND	364	ND	ND	ND	ND	364
I-39N	I-39N(0-2.0)	5/2/2013	04028-022	0.0-2.0	ND	253	ND	30	ND	ND	283
I-39N(1)	I-39N(1) (0-2.0)	9/11/2013	08939-006	0.0-2.0	ND	ND	ND	ND	ND	ND	0
I-39S	I-39S (0-2.0)	9/10/2013	08844-007	0.0-2.0	ND	ND	ND	ND	ND	ND	0
I-39W	I-39W (0-2.0)	9/10/2013	08844-008	0.0-2.0	ND	ND	ND	ND	ND	ND	0
I-40	I-40 (0-2.0)	9/7/2012	09128-005	0.0-2.0	ND	1.12	ND	ND	ND	ND	1.12
	I-40 (2.0-4.0)	9/7/2012	09128-006	2.0-4.0	ND	ND	ND	ND	ND	ND	0
J-32	J-32 (0-2.0)	9/10/2012	09161-045	0.0-2.0	ND	0.617	ND	ND	ND	ND	0.617
	J-32 (2.0-4.0)	9/10/2012	09161-046	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	J-32 (4.0-5.0)	9/10/2012	09161-047	4.0-5.0	ND	0.121	ND	ND	ND	ND	0.121
	J-32 (5.0-6.0)	9/10/2012	09161-048	5.0-6.0	ND	ND	ND	ND	ND	ND	0
J-33	J-33 (0-2.0)	9/10/2012	09161-041	0.0-2.0	ND	13.2	ND	ND	ND	ND	13.2
	J-33 (2.0-4.0)	9/10/2012	09161-042	2.0-4.0	ND	0.237	ND	ND	ND	ND	0.237
	J-33 (4.0-5.25)	9/10/2012	09161-043	4.0-5.25	ND	1.38	ND	ND	ND	ND	1.38
	J-33 (5.25-6.0)	9/10/2012	09161-044	5.25-6.0	ND	0.097	ND	ND	ND	ND	0.097
J-34	J-34 (0.0-2.0)	7/27/2012	07626-005	0.0-2.0	ND	0.302	ND	ND	ND	ND	0.302
	J-34 (2.0-4.0)	7/27/2012	07626-006	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	J-34 (4.0-5.25)	7/27/2012	07626-007	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	J-34 (5.25-6.0)	7/27/2012	07626-008	5.25-6.0	ND	ND	ND	ND	ND	ND	0

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ARSYNCO, INC
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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
J-35	J-35 (0.0-2.0)	7/27/2012	07626-001	0.0-2.0	ND	6860	ND	ND	ND	ND	6860
	J-35 (2.0-4.0)	7/27/2012	07626-002	2.0-4.0	ND	7.12	ND	ND	ND	ND	7.12
	J-35 (4.0-5.0)	7/27/2012	07626-003	4.0-5.0	ND	1.13	ND	ND	ND	ND	1.13
	J-35 (5.0-6.0)	7/27/2012	07626-004	5.0-6.0	ND	ND	ND	ND	ND	ND	0
J-35N	J-35N (0-2.0)	5/3/2013	04119-026	0.0-2.0	ND	120	ND	ND	ND	ND	120
J-35S	J-35S (2.0-4.0)	5/3/2013	04119-011	2.0-4.0	0.339	ND	ND	0.331	ND	ND	0.67
J-36	J-36 (0.0-2.0)	7/11/2012	06899-034	0.0-2.0	ND	1950	ND	ND	ND	ND	1950
	J-36 (2.0-4.0)	7/11/2012	06899-035	2.0-4.0	ND	612	ND	ND	ND	ND	612
	J-36 (4.0-6.0)	7/11/2012	06899-036	4.0-6.0	ND	2.06	ND	ND	ND	ND	2.06
	G-33B(N)	11/20/1995	N of G-33B	3.0-3.5	ND	31.6	ND	ND	NA	NA	31.6
J-36E	J-36E (0-2.0)	5/3/2013	04119-012	0.0-2.0	ND	85.2	ND	ND	ND	ND	85.2
	J-36E (2.0-4.0)	5/3/2013	04119-013	2.0-4.0	ND	5.67	ND	ND	ND	ND	5.67
J-36S	J-36S (2.0-4.0)	5/3/2013	04119-001	2.0-4.0	ND	460	ND	ND	ND	ND	460
J-36W	J-36W (0-2.0)	5/3/2013	04119-009	0.0-2.0	ND	2890	ND	ND	ND	ND	2890
	J-36W (2.0-4.0)	5/3/2013	04119-010	2.0-4.0	0.172	ND	ND	ND	ND	ND	0.172
J-37	J-37 (0-2.0)	7/9/2012	06784-025	0.0-2.0	ND	571	ND	ND	ND	ND	571
	J-37 (2.0-4.0)	7/9/2012	06784-026	2.0-4.0	ND	0.714	ND	ND	ND	ND	0.714
	J-37 (4.0-6.0)	7/9/2012	06784-027	4.0-6.0	ND	1.02	ND	ND	ND	ND	1.02
	G-33B(E)	11/20/1995	E of G-33B	3.0-3.5	ND	57.8	ND	ND	NA	NA	57.8
J-37E	J-37E(0-2.0)	5/2/2013	04028-024	0.0-2.0	ND	2.96	ND	ND	ND	ND	2.96
J-37S	J-37S(0-2.0)	5/2/2013	04028-023	0.0-2.0	ND	12.5	ND	ND	ND	ND	12.5
J-38	J-38 (0-2.0)	7/9/2012	06784-013	0.0-2.0	ND	4.38	ND	ND	ND	ND	4.38
	J-38 (2.0-4.0)	7/9/2012	06784-014	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	J-38 (4.0-6.0)	7/9/2012	06784-015	4.0-6.0	ND	ND	ND	ND	ND	ND	0
J-39	J-39 (0-2.0)	7/9/2012	06784-010	0.0-2.0	ND	302	ND	ND	ND	ND	302
	J-39 (2.0-4.0)	7/9/2012	06784-011	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	J-39 (4.0-6.0)	7/9/2012	06784-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
J-40	J-40 (0-2.0)	7/9/2012	06784-007	0.0-2.0	ND	51.7	ND	ND	ND	ND	51.7
	J-40 (2.0-4.0)	7/9/2012	06784-008	2.0-4.0	ND	285	ND	ND	ND	ND	285
	J-40 (4.0-6.0)	7/9/2012	06784-009	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	C_1 (0_2.0)	5/22/2014	04658_002	0.0-2.0	0	0	0	0	0	0	0
	C_1 (2.0_4.0)	5/22/2014	04658_003	2.0-4.0	0	0	0	0	0	0	0
J-41	J-41 (0-2.0)	9/7/2012	09128-003	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	J-41 (2.0-4.0)	9/7/2012	09128-004	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	C_2 (0_2.0)	5/21/2014	04618_011	0.0_2.0	0	194	0	0	0	0	194
J-42	J-42 (0-2.0)	9/7/2012	09128-007	0.0-2.0	ND	0.362	ND	ND	ND	ND	0.362
	J-42 (2.0-4.0)	9/7/2012	09128-008	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	G-32C	6/2/1995	G-32	0.0-5'	ND	9.9	ND	ND	NA	NA	9.9
	G-32D	5/8/2002	S of G-32	3.0-3.5'	ND	ND	ND	ND	NA	NA	0
	G-32E	5/8/2002	S of G-32	0.0-0.5'	ND	ND	ND	ND	NA	NA	0
J-42S	J-42S (0-2.0)	9/10/2013	08844-003	0.0-2.0	ND	0.931	ND	ND	ND	ND	0.931
	J-42S (2.0-4.0)	9/10/2013	08844-004	2.0-4.0	ND	0.095	ND	ND	ND	ND	0.095
K-18	G-15A	11/11/1994	G-15	1.0-1.5	ND	16	ND	ND	NA	NA	16
	G-15B	11/11/1994	G-15	3.0-3.5	ND	12	ND	ND	NA	NA	12
	G-15N	6/8/1995	G-15 Native	6.0-6.5	ND	ND	ND	ND	NA	NA	0
K-19	K-19 (0-2.0)	4/3/2013	02986-004	0.0-2.0	ND	0.092	ND	ND	ND	ND	0.092
K-20	K-20 (0-2.0)	4/3/2013	02986-003	0.0-2.0	ND	0.115	ND	ND	ND	ND	0.115
K-30	G-27B	11/14/1994	G-27	2.0-2.5	ND	9.5	ND	ND	NA	NA	9.5
	G-27A	11/14/1994	G-27	0.25-0.75	ND	5.4	ND	ND	NA	NA	5.4
	G-27N	6/8/1995	G-27 Native	7.0-7.5	ND	ND	ND	ND	NA	NA	0
K-33	K-33 (0-2.0)	8/21/2013	08149-020	0.0-2.0	ND	0.22	ND	ND	ND	ND	0.22
K-34	K-34 (0.0-2.0)	7/26/2012	07543-056	0.0-2.0	ND	4.83	ND	ND	ND	ND	4.83
	K-34 (2.0-3.0)	7/26/2012	07543-057	2.0-3.0	ND	0.095	ND	ND	ND	ND	0.095
	K-34 (3.0-4.0)	7/26/2012	07543-058	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	K-34 (4.0-6.0)	7/26/2012	07543-059	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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K-35	K-35 (0.0-2.0)	7/26/2012	07543-060	0.0-2.0	ND	645	ND	278	ND	ND	923
	K-35 (2.0-3.0)	7/26/2012	07543-061	2.0-3.0	52.3	ND	ND	ND	ND	ND	52.3
	K-35 (3.0-4.0)	7/26/2012	07543-062	3.0-4.0	ND	1.96	ND	ND	ND	ND	1.96
	K-35 (4.0-6.0)	7/26/2012	07543-063	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	ADS-1	Jun-92	G-33	0-0.5							2.4
K-35E	K-35E (0-2.0)	5/3/2013	04119-015	0.0-2.0	ND	1.24	ND	ND	ND	ND	1.24
K-35N	K-35N (0-2.0)	5/3/2013	04119-016	0.0-2.0	ND	6.84	ND	ND	ND	ND	6.84
K-35S	K-35S (0-2.0)	5/3/2013	04119-014	0.0-2.0	ND	95.7	ND	ND	ND	ND	95.7
K-36	K-36 (0.0-2.0)	7/11/2012	06899-031	0.0-2.0	ND	51.3	ND	ND	ND	ND	51.3
	K-36 (2.0-4.0)	7/11/2012	06899-032	2.0-4.0	ND	0.575	ND	ND	ND	ND	0.575
	K-36 (4.0-6.0)	7/11/2012	06899-033	4.0-6.0	ND	ND	ND	ND	ND	ND	0
K-37	K-37 (0.0-2.0)	7/11/2012	06899-016	0.0-2.0	ND	63.1	ND	ND	ND	ND	63.1
	K-37 (2.0-4.0)	7/11/2012	06899-017	2.0-4.0	ND	0.959	ND	ND	ND	ND	0.959
	K-37 (4.0-6.0)	7/11/2012	06899-018	4.0-6.0	ND	0.122	ND	ND	ND	ND	0.122
K-38	K-38 (0.0-2.0)	7/11/2012	06899-010	0.0-2.0	ND	12.6	ND	ND	ND	ND	12.6
	K-38 (2.0-4.0)	7/11/2012	06899-011	2.0-4.0	ND	2.84	ND	ND	ND	ND	2.84
	K-38 (4.0-6.0)	7/11/2012	06899-012	4.0-6.0	ND	0.133	ND	ND	ND	ND	0.133
K-39	K-39 (0.0-2.0)	7/10/2012	06841-047	0.0-2.0	ND	17.7	ND	ND	ND	ND	17.7
	K-39 (2.0-4.0)	7/10/2012	06841-048	2.0-4.0	ND	3.4	ND	ND	ND	ND	3.4
	K-39 (4.0-6.0)	7/10/2012	06841-049	4.0-6.0	ND	72.2	ND	32	ND	ND	104.2
	K-39 (5.0-5.5)	8/10/2012	08167-018	5.0-5.5	ND	1.01	ND	ND	ND	ND	1.01
	K-39 (6.0-6.5)	8/10/2012	08167-019	6.0-6.5	ND	0.327	ND	ND	ND	ND	0.327
K-40	K-40 (0.0-2.0)	7/10/2012	06841-044	0.0-2.0	ND	20.6	9.35	ND	ND	ND	29.95
	K-40 (2.0-4.0)	7/10/2012	06841-045	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	K-40 (4.0-6.0)	7/10/2012	06841-046	4.0-6.0	ND	ND	ND	ND	ND	ND	0
K-41	K-41 (0-2.0)	7/9/2012	06784-004	0.0-2.0	ND	316	ND	ND	ND	ND	316
	K-41 (2.0-4.0)	7/9/2012	06784-005	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	K-41 (4.0-6.0)	7/9/2012	06784-006	4.0-6.0	ND	ND	ND	ND	ND	ND	0
K-42	K-42 (0-2.0)	8/13/2012	08194-005	0.0-2.0	ND	259	ND	ND	ND	ND	259
	K-42 (2.0-4.0)	8/13/2012	08194-006	2.0-4.0	ND	638	ND	ND	ND	ND	638
	K-42 (4.75-5.0)	8/13/2012	08194-007	4.75-5.0	ND	ND	ND	ND	ND	ND	0
	K-42 (5.0-6.0)	8/13/2012	08194-008	5.0-6.0	ND	0.997	ND	0.213	ND	ND	1.21
	C_3 (0_2.0)	5/22/2014	04658_004	0.0-2.0	0	2.59	0	0	0	0	2.59
	C_3 (0_2.0)	5/22/2014	04658_005	2.0-4.0	0	0.9	0	0	0	0	0.9
K-42E	K-42E(2.0-4.0)	5/2/2013	04028-008	2.0-4.0	ND	ND	ND	ND	ND	ND	0
K-42N	K-42N(2.0-4.0)	5/2/2013	04028-009	2.0-4.0	ND	ND	ND	ND	ND	ND	0
K-42S	K-42S (0-2.0)	9/10/2013	08844-009	0.0-2.0	ND	20.1	D ND	ND	ND	ND	20.1
K-43	K-43 (0-2.0)	9/7/2012	09128-001	0.0-2.0	ND	7.32	ND	ND	ND	ND	7.32
	K-43 (2.0-4.0)	9/7/2012	09128-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
L-11	G-13A	11/10/1994	G-13	0.25-0.75	ND	2.5	2.9	ND	NA	NA	5.4
	G-13B	11/10/1994	G-13	1.5-2.0	ND	ND	ND	ND	NA	NA	0
L-16	L-16 (0-2.0)	4/3/2013	02986-007	0.0-2.0	ND	11	ND	ND	ND	ND	11
L-17	L-17 (0-2.0)	4/3/2013	02986-006	0.0-2.0	ND	11.4	ND	ND	ND	ND	11.4
L-18	L-18 (0-2.0)	10/19/2012	10655-005	0.0-2.0	ND	4.03	ND	0.884	ND	ND	4.914
	L-18 (2.0-4.0)	10/19/2012	10655-006	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	L-18 (4.0-5.0)	10/19/2012	10655-007	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	L-18 (5.0-6.0)	10/19/2012	10655-008	5.0-6.0	ND	ND	ND	ND	ND	ND	0
L-19	L-19 (0-1.0)	10/19/2012	10655-001	0.0-1.0	ND	169	ND	ND	ND	ND	169
	L-19 (1.0-2.0)	10/19/2012	10655-002	1.0-2.0	ND	2.08	ND	ND	ND	ND	2.08
	L-19 (2.0-4.0)	10/19/2012	10655-003	2.0-4.0	ND	18.2	ND	ND	ND	ND	18.2
	L-19 (4.0-6.0)	10/19/2012	10655-004	4.0-6.0	ND	ND	ND	ND	ND	ND	0
L-19E	L-19E (0-2.0)	4/19/2013	03615-020	0.0-2.0	ND	13.7	ND	ND	ND	ND	13.7
L-19N	L-19N (0-2.0)	4/19/2013	03615-019	0.0-2.0	ND	5.59	ND	ND	ND	ND	5.59
L-19S	L-19S (0-2.0)	4/19/2013	03615-017	0.0-2.0	ND	2.31	ND	ND	ND	ND	2.31

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L-19W	L-19W (0-2.0)	4/19/2013	03615-018	0.0-2.0	ND	0.813	ND	ND	ND	ND	0.813
L-20	L-20 (0-2.0)	4/3/2013	02986-002	0.0-2.0	ND	12.8	ND	8.65	ND	ND	21.45
L-21	L-21 (0-2.0)	4/3/2013	02986-001	0.0-2.0	ND	ND	ND	ND	ND	ND	0
L-33	L-33 (0-2.0)	8/21/2013	08149-019	0.0-2.0	ND	0.116	ND	ND	ND	ND	0.116
L-34	L-34 (0.0-2.0)	7/26/2012	07543-052	0.0-2.0	ND	0.342	ND	ND	ND	ND	0.342
	L-34 (2.0-4.0)	7/26/2012	07543-053	2.0-4.0	ND	0.173	ND	ND	ND	ND	0.173
	L-34 (4.0-4.5)	7/26/2012	07543-054	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	L-34 (4.5-6.0)	7/26/2012	07543-055	4.5-6.0	ND	ND	ND	ND	ND	ND	0
	ADS-4	Jun-92	G-28	0-0.5							110
L-35	L-35 (0.0-2.0)	7/26/2012	07543-048	0.0-2.0	ND	0.041	ND	ND	ND	ND	0.041
	L-35 (2.0-3.0)	7/26/2012	07543-049	2.0-3.0	ND	2.68	ND	ND	ND	ND	2.68
	L-35 (3.0-4.0)	7/26/2012	07543-050	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	L-35 (4.0-6.0)	7/26/2012	07543-051	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	ADS-2	Jun-92	G-33	0.0-0.5							130
	ADS-3	Jun-92	G-28	0.0-0.5							7.9
L-36	L-36 (0.0-2.0)	7/11/2012	06899-028	0.0-2.0	ND	0.752	ND	ND	ND	ND	0.752
	L-36 (2.0-4.0)	7/11/2012	06899-029	2.0-4.0	ND	3.23	ND	ND	ND	ND	3.23
	L-36 (4.0-6.0)	7/11/2012	06899-030	4.0-6.0	ND	ND	ND	ND	ND	ND	0
L-37	L-37 (0.0-2.0)	7/11/2012	06899-019	0.0-2.0	ND	6.9	ND	ND	ND	ND	6.9
	L-37 (2.0-4.0)	7/11/2012	06899-020	2.0-4.0	ND	3.18	ND	ND	ND	ND	3.18
	L-37 (4.0-6.0)	7/11/2012	06899-021	4.0-6.0	ND	ND	ND	ND	ND	ND	0
L-38	L-38 (0.0-2.0)	7/11/2012	06899-007	0.0-2.0	ND	0.156	0.121	ND	ND	ND	0.277
	L-38 (2.0-4.0)	7/11/2012	06899-008	2.0-4.0	ND	0.146	0.111	ND	ND	ND	0.257
	L-38 (4.0-6.0)	7/11/2012	06899-009	4.0-6.0	ND	ND	ND	ND	ND	ND	0
L-39	L-39 (0.0-2.0)	7/10/2012	06841-050	0.0-2.0	ND	96	ND	ND	ND	ND	96
	L-39 (2.0-4.0)	7/10/2012	06841-051	2.0-4.0	ND	0.305	ND	ND	ND	ND	0.305
	L-39 (4.0-6.0)	7/10/2012	06841-052	4.0-6.0	ND	ND	ND	ND	ND	ND	0
L-40	L-40 (0.0-2.0)	7/10/2012	06841-041	0.0-2.0	ND	126	ND	ND	ND	ND	126
	L-40 (2.0-4.0)	7/10/2012	06841-042	2.0-4.0	ND	0.219	ND	ND	ND	ND	0.219
	L-40 (4.0-6.0)	7/10/2012	06841-043	4.0-6.0	ND	0.441	ND	ND	ND	ND	0.441
L-41	L-41 (0.0-2.0)	7/10/2012	06841-025	0.0-2.0	ND	138	ND	45.4	ND	ND	183.4
	L-41 (2.0-4.0)	7/10/2012	06841-026	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	L-41 (4.0-6.0)	7/10/2012	06841-027	4.0-6.0	ND	0.103	ND	ND	ND	ND	0.103
	G-32A	11/15/1994	G-32	0.0-0.5	ND	340	ND	ND	NA	NA	340
	G-32B	11/15/1994	G-32	2.0-2.5	ND	0.86	ND	0.16	NA	NA	1.02
L-42	L-42 (0-2.0)	7/6/2012	06741-045	0.0-2.0	ND	16.6	ND	ND	ND	ND	16.6
	L-42 (2.0-4.0)	7/6/2012	06741-046	2.0-4.0	ND	50.1	ND	7.73	ND	ND	57.83
	L-42 (4.0-6.0)	7/6/2012	06741-047	4.0-6.0	ND	ND	ND	0.392	ND	ND	0.392
	VIII-18	11/30/2001	G-32	2.75-3.25'	ND	9.8	ND	3	NA	NA	12.8
L-43	L-43 (0-2.0)	7/9/2012	06784-001	0.0-2.0	ND	22.8	ND	ND	ND	ND	22.8
	L-43 (2.0-4.0)	7/9/2012	06784-002	2.0-4.0	ND	457	ND	92.4	ND	ND	549.4
	L-43 (4.0-6.0)	7/9/2012	06784-003	4.0-6.0	ND	1.64	ND	ND	ND	ND	1.64
	2_2 (2.0-4.0)	5/22/2014	04658_006	2.0-4.0	0	0	0	0	0	0	0
L-43E	L-43E (2.0-4.0)	5/2/2013	04028-005	2.0-4.0	ND	384	ND	ND	ND	ND	384
L-43N	L-43N (2.0-4.0)	5/2/2013	04028-007	2.0-4.0	ND	229	ND	50.9	ND	ND	279.9
L-43W	L-43W (2.0-4.0)	5/2/2013	04028-006	2.0-4.0	ND	57.2	ND	ND	ND	ND	57.2
L-44	L-44 (0-2.0)	9/6/2012	09052-005	0.0-2.0	ND	14.7	ND	ND	ND	ND	14.7
	L-44 (2.0-4.0)	9/6/2012	09052-006	2.0-4.0	ND	4.32	ND	ND	ND	ND	4.32
	D_1 (0_2.0)	5/21/2014	04618_010	0.0_2.0	0	28.3	0	0	0	0	28.3
L-46	G-31E	6/2/1995	S of G-31	0-0.5	ND	10	3.1	ND	NA	NA	13.1
	G-31F	6/9/1995	S of G-31	2.5-3.0	ND	0.09	ND	ND	NA	NA	0.09
	G-31H	5/8/2002	S of G-31	0.0-0.5'	ND	ND	ND	ND	NA	NA	0
M-4	PP-13	3/3/1993	W of G-1	0-0.5	ND	0.3	ND	ND	NA	NA	0.3

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
M-12	M-12 (0-2.0)	9/11/2012	09199-001	0.0-2.0	ND	0.828	ND	0.416	ND	ND	1.244
	M-12 (2.0-4.0)	9/11/2012	09199-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	M-12 (4.0-5.0)	9/11/2012	09199-003	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	M-12 (5.0-6.0)	9/11/2012	09199-004	5.0-6.0	ND	ND	ND	ND	ND	ND	0
M-13	M-13 (0-2.0)	9/11/2012	09199-005	0.0-2.0	ND	36	ND	ND	ND	ND	36
	M-13 (2.0-4.0)	9/11/2012	09199-006	2.0-4.0	ND	0.18	ND	ND	ND	ND	0.18
	M-13 (4.0-5.25)	9/11/2012	09199-007	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	M-13 (5.25-6.0)	9/11/2012	09199-008	5.25-6.0	ND	ND	ND	ND	ND	ND	0
M-14	M-14 (0-2.0)	9/11/2012	09199-009	0.0-2.0	ND	21.2	ND	ND	ND	ND	21.2
	M-14 (2.0-4.0)	9/11/2012	09199-010	2.0-4.0	ND	2.75	ND	ND	ND	ND	2.75
	M-14 (4.0-5.25)	9/11/2012	09199-011	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	M-14 (5.25-6.0)	9/11/2012	09199-012	5.25-6.0	ND	ND	ND	ND	ND	ND	0
M-14N	M-14N (0-2.0)	8/15/2013	07948-014	0.0-2.0	ND	4.6	ND	ND	ND	ND	4.6
M-15	M-15 (0-2.0)	9/11/2012	09199-013	0.0-2.0	ND	19	ND	ND	ND	ND	19
	M-15 (2.0-4.0)	9/11/2012	09199-014	2.0-4.0	ND	0.06	ND	ND	ND	ND	0.06
	M-15 (4.0-5.0)	9/11/2012	09199-015	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	M-15 (5.0-6.0)	9/11/2012	09199-016	5.0-6.0	ND	ND	ND	ND	ND	ND	0
M-16	M-16 (0-2.0)	4/3/2013	02986-008	0.0-2.0	ND	7.13	ND	ND	ND	ND	7.13
M-17	M-17 (0-2.0)	10/19/2012	10655-009	0.0-2.0	ND	437	ND	ND	ND	ND	437
	M-17 (2.0-4.0)	10/19/2012	10655-010	2.0-4.0	ND	2.88	ND	ND	ND	ND	2.88
	M-17 (4.0-4.5)	10/19/2012	10655-011	4.0-4.5	ND	0.054	ND	ND	ND	ND	0.054
	M-17 (4.5-5.25)	10/19/2012	10655-012	4.5-5.25	ND	0.277	ND	ND	ND	ND	0.277
	M-17 (5.25-6.0)	10/19/2012	10655-013	5.25-6.0	ND	ND	ND	ND	ND	ND	0
M-17N	M-17N (0-2.0)	4/19/2013	03615-023	0.0-2.0	ND	27.6	ND	ND	ND	ND	27.6
M-17S	M-17S (0-2.0)	4/19/2013	03615-021	0.0-2.0	ND	56.5	ND	ND	ND	ND	56.5
M-17W	M-17W (0-2.0)	4/19/2013	03615-022	0.0-2.0	ND	18.4	ND	ND	ND	ND	18.4
M-18	M-18 (0-2.0)	10/19/2012	10655-014	0.0-2.0	ND	43.9	ND	ND	ND	ND	43.9
	M-18 (2.0-4.0)	10/19/2012	10655-015	2.0-4.0	ND	0.167	ND	ND	ND	ND	0.167
	M-18 (4.0-5.0)	10/19/2012	10655-016	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	M-18 (5.0-5.5)	10/19/2012	10655-017	5.0-5.5	ND	ND	ND	ND	ND	ND	0
	M-18 (5.5-6.0)	10/19/2012	10655-018	5.5-6.0	ND	ND	ND	ND	ND	ND	0
M-19	M-19 (0-2.0)	10/19/2012	10655-019	0.0-2.0	ND	42.4	ND	ND	ND	ND	42.4
	M-19 (2.0-4.0)	10/19/2012	10655-020	2.0-4.0	ND	0.375	ND	ND	ND	ND	0.375
	M-19 (4.0-5.0)	10/19/2012	10655-021	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	M-19 (5.0-6.0)	10/19/2012	10655-022	5.0-6.0	ND	ND	ND	ND	ND	ND	0
M-20	M-20 (0-2.0)	10/19/2012	10655-023	0.0-2.0	ND	46.6	ND	8.53	ND	ND	55.13
	M-20 (2.0-4.0)	10/19/2012	10655-024	2.0-4.0	ND	0.297	ND	ND	ND	ND	0.297
	M-20 (4.0-5.0)	10/19/2012	10655-025	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	M-20 (5.0-6.0)	10/19/2012	10655-026	5.0-6.0	ND	ND	ND	ND	ND	ND	0
M-20E	M-20E (0-2.0)	4/19/2013	03615-016	0.0-2.0	ND	2.26	ND	ND	ND	ND	2.26
M-20N	M-20N (0-2.0)	4/19/2013	03615-015	0.0-2.0	ND	38.9	ND	ND	ND	ND	38.9
M-20S	M-20S (0-2.0)	4/19/2013	03615-013	0.0-2.0	ND	0.247	0.117	ND	ND	ND	0.364
M-20W	M-20W (0-2.0)	4/19/2013	03615-014	0.0-2.0	ND	ND	ND	ND	ND	ND	0
M-21	M-21 (0-2.0)	4/3/2013	02986-005	0.0-2.0	ND	5.49	ND	ND	ND	ND	5.49
M-33	M-33 (0-2.0)	9/10/2012	09161-050	0.0-2.0	ND	1.71	ND	ND	ND	ND	1.71
	M-33 (2.0-4.0)	9/10/2012	09161-051	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	M-33 (4.0-5.0)	9/10/2012	09161-052	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	M-33 (5.0-6.0)	9/10/2012	09161-053	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	M-33 (6.0-8.0)	9/10/2012	09161-054	6.0-8.0	ND	ND	ND	ND	ND	ND	0
M-34	M-34 (0.0-2.0)	7/26/2012	07543-036	0.0-2.0	ND	27.1	ND	ND	ND	ND	27.1
	M-34 (2.0-3.25)	7/26/2012	07543-037	2.0-3.0	ND	247	ND	ND	ND	ND	247
	M-34 (3.25-4.0)	7/26/2012	07543-038	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	M-34 (4.0-6.0)	7/26/2012	07543-039	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	ADS-5	Jun-92	G-28	0-0.5							1.5
M-34N	M-34N (2.0-4.0)	8/21/2013	08149-017	2.0-4.0	ND	0.112	ND	ND	ND	ND	0.112

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M-34S	M-34S (2.0-3.0)	8/21/2013	08149-015	2.0-3.0	ND	80.7	ND	ND	ND	ND	80.7
	M-34S (3.0-4.0)	8/21/2013	08149-016	3.0-4.0	ND	0.456	ND	ND	ND	ND	0.456
M-35	M-35 (0.0-2.0)	7/26/2012	07543-040	0.0-2.0	ND	6.67	ND	ND	ND	ND	6.67
	M-35 (2.0-4.0)	7/26/2012	07543-041	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	M-35 (4.0-5.0)	7/26/2012	07543-042	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	M-35 (5.0-6.0)	7/26/2012	07543-043	5.0-6.0	ND	ND	ND	ND	ND	ND	0
M-36	M-36 (0.0-2.0)	7/26/2012	07543-044	0.0-2.0	ND	0.203	ND	ND	ND	ND	0.203
	M-36 (2.0-4.0)	7/26/2012	07543-045	2.0-4.0	ND	0.286	ND	ND	ND	ND	0.286
	M-36 (4.0-4.75)	7/26/2012	07543-046	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	M-36 (4.75-6.0)	7/26/2012	07543-047	4.75-6.0	ND	ND	ND	ND	ND	ND	0
M-37	M-37 (0.0-2.0)	7/11/2012	06899-022	0.0-2.0	ND	0.245	ND	ND	ND	ND	0.245
	M-37 (2.0-4.0)	7/11/2012	06899-023	2.0-4.0	ND	0.814	ND	ND	ND	ND	0.814
	M-37 (4.0-6.0)	7/11/2012	06899-024	4.0-6.0	ND	0.223	ND	ND	ND	ND	0.223
M-38	M-38 (0.0-2.0)	7/11/2012	06899-004	0.0-2.0	ND	0.664	ND	ND	ND	ND	0.664
	M-38 (2.0-4.0)	7/11/2012	06899-005	2.0-4.0	ND	0.03	ND	ND	ND	ND	0.03
	M-38 (4.0-6.0)	7/11/2012	06899-006	4.0-6.0	ND	ND	ND	ND	ND	ND	0
M-39	M-39 (0.0-2.0)	7/10/2012	06841-053	0.0-2.0	ND	1430	ND	ND	ND	ND	1430
	M-39 (2.0-4.0)	7/10/2012	06841-054	2.0-4.0	ND	3.55	ND	ND	ND	ND	3.55
	M-39 (4.0-6.0)	7/10/2012	06841-055	4.0-6.0	ND	0.21	ND	ND	ND	ND	0.21
M-39E	M-39E(0-2.0)	5/2/2013	04028-018	0.0-2.0	ND	3730	ND	ND	ND	ND	3730
M-39N	M-39N(0-2.0)	5/2/2013	04028-019	0.0-2.0	ND	158	ND	ND	ND	ND	158
M-39S	M-39S(0-2.0)	5/2/2013	04028-017	0.0-2.0	ND	897	ND	ND	ND	ND	897
M-39W	M-39W(0-2.0)	5/2/2013	04028-020	0.0-2.0	ND	140	ND	20	ND	ND	160
M-40	M-40 (0.0-2.0)	7/10/2012	06841-038	0.0-2.0	ND	71.2	ND	ND	ND	ND	71.2
	M-40 (2.0-4.0)	7/10/2012	06841-039	2.0-4.0	ND	1.12	ND	ND	ND	ND	1.12
	M-40 (4.0-6.0)	7/10/2012	06841-040	4.0-6.0	ND	ND	ND	ND	ND	ND	0
M-41	M-41 (0.0-2.0)	7/10/2012	06841-028	0.0-2.0	ND	161	ND	ND	ND	ND	161
	M-41 (2.0-4.0)	7/10/2012	06841-029	2.0-4.0	ND	5.9	ND	ND	ND	ND	5.9
	M-41 (4.0-6.0)	7/10/2012	06841-030	4.0-6.0	ND	0.111	ND	ND	ND	ND	0.111
M-42	M-42 (0.0-2.0)	7/10/2012	06841-022	0.0-2.0	ND	66.4	ND	23.7	ND	ND	90.1
	M-42 (2.0-4.0)	7/10/2012	06841-023	2.0-4.0	ND	14.4	ND	7.39	ND	ND	21.79
	M-42 (4.0-5.0)	9/10/2012	09161-055	4.0-5.0	ND	39.3	ND	ND	ND	ND	39.3
	M-42 (4.0-6.0)	7/10/2012	06841-024	4.0-6.0	ND	54.3	ND	ND	ND	ND	54.3
	M-42 (5.0-6.0)	9/10/2012	09161-056	5.0-6.0	ND	11.5	ND	ND	ND	ND	11.5
	M-42 (6.0-7.0)	9/10/2012	09161-057	6.0-7.0	ND	ND	ND	ND	ND	ND	0
M-43	M-43 (0-2.0)	7/6/2012	06741-042	0.0-2.0	ND	6.63	ND	ND	ND	ND	6.63
	M-43 (2.0-4.0)	7/6/2012	06741-043	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	M-43 (4.0-6.0)	7/6/2012	06741-044	4.0-6.0	ND	ND	ND	ND	ND	ND	0
M-44	M-44 (0-2.0)	7/6/2012	06741-039	0.0-2.0	ND	208	ND	ND	ND	ND	208
	M-44 (2.0-4.0)	7/6/2012	06741-040	2.0-4.0	ND	2.68	ND	ND	ND	ND	2.68
	M-44 (4.0-6.0)	7/6/2012	06741-041	4.0-6.0	ND	ND	ND	ND	ND	ND	0
M-44S	M-44S (0-2.0)	9/10/2013	08844-002	0.0-2.0	ND	0.349	ND	ND	ND	ND	0.349
M-45	M-45 (0-2.0)	9/6/2012	09052-001	0.0-2.0	ND	2.3	ND	ND	ND	ND	2.3
	M-45 (2.0-4.0)	9/6/2012	09052-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	D_2 (0_2.0)	5/22/2014	04658_010	0.0-2.0	0	31.5	0	0	0	0	31.5
M-46	M-46 (0-2.0)	9/6/2012	09052-003	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	M-46 (2.0-4.0)	9/6/2012	09052-004	2.0-4.0	ND	ND	ND	ND	ND	ND	0
N-11	N-11 (0.0-2.0)	8/1/2012	07780-030	0.0-2.0	ND	ND	0.486	ND	ND	ND	0.486
	N-11 (2.0-4.0)	8/1/2012	07780-031	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	N-11 (4.0-5.25)	8/1/2012	07780-032	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	N-11 (5.25-6.0)	8/1/2012	07780-033	5.25-6.0	ND	ND	ND	ND	ND	ND	0
	N-11 (6.0-8.0)	8/1/2012	07780-034	6.0-8.0	ND	ND	ND	ND	ND	ND	0
N-12	N-12 (0.0-2.0)	7/20/2012	07337-001	0.0-2.0	ND	26.5	ND	ND	ND	ND	26.5
	N-12 (2.0-4.0)	7/20/2012	07337-002	2.0-3.25	ND	0.648	ND	ND	ND	ND	0.648
	N-12 (4.0-4.5)	7/20/2012	07337-003	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	N-12 (4.5-6.0)	7/20/2012	07337-004	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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N-13	N-13 (0.0-2.0)	7/20/2012	07337-013	0.0-2.0	ND	ND	ND	0.611	ND	ND	0.611
	N-13 (2.0-3.25)	7/20/2012	07337-014	2.0-3.25	ND	ND	ND	ND	ND	ND	0
	N-13 (3.25-4.0)	7/20/2012	07337-015	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	N-13 (4.0-6.0)	7/20/2012	07337-016	4.0-6.0	ND	ND	ND	ND	ND	ND	0
N-14	N-14 (0.0-2.0)	7/30/2012	07662-026	0.0-2.0	ND	925	ND	ND	ND	ND	925
	N-14 (2.0-3.0)	7/30/2012	07662-027	2.0-3.0	ND	3.26	ND	ND	ND	ND	3.26
	N-14 (3.0-4.0)	7/30/2012	07662-028	3.0-4.0	ND	1.36	ND	ND	ND	ND	1.36
	N-14 (4.0-6.0)	7/30/2012	07662-029	4.0-6.0	ND	ND	ND	ND	ND	ND	0
N-14E	N-14E (0-2.0)	4/10/2013	03222-025	0.0-2.0	ND	0.832	ND	ND	ND	ND	0.832
N-14N	N-14N (0-2.0)	4/10/2013	03222-026	0.0-2.0	ND	ND	ND	ND	ND	ND	0
N-14S	N-14S (0-2.0)	4/10/2013	03222-024	0.0-2.0	ND	2240	ND	ND	ND	ND	2240
N-14W	N-14W (0-2.0)	4/10/2013	03222-027	0.0-2.0	ND	68	ND	ND	ND	ND	68
N-15	N-15 (0-2.0)	9/11/2012	09199-017	0.0-2.0	ND	0.361	ND	ND	ND	ND	0.361
	N-15 (2.0-4.0)	9/11/2012	09199-018	2.0-4.0	ND	1.24	ND	ND	ND	ND	1.24
	N-15 (4.0-5.0)	9/11/2012	09199-019	4.0-5.0	ND	0.233	ND	ND	ND	ND	0.233
	N-15 (5.0-6.0)	9/11/2012	09199-020	5.0-6.0	ND	7.72	ND	ND	ND	ND	7.72
N-16	N-16 (0-2.0)	10/19/2012	10655-035	0.0-2.0	ND	14.3	ND	ND	ND	ND	14.3
	N-16 (2.0-3.5)	10/19/2012	10655-036	2.0-3.5	ND	3	ND	ND	ND	ND	3
	N-16 (3.5-4.0)	10/19/2012	10655-037	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	N-16 (4.0-6.0)	10/19/2012	10655-038	4.0-6.0	ND	ND	ND	ND	ND	ND	0
N-17	N-17 (0-2.0)	10/19/2012	10655-031	0.0-2.0	ND	258	ND	ND	ND	ND	258
	N-17 (2.0-4.0)	10/19/2012	10655-032	2.0-4.0	ND	4.62	ND	ND	ND	ND	4.62
	N-17 (4.0-5.0)	10/19/2012	10655-033	4.0-5.0	ND	0.264	ND	ND	ND	ND	0.264
	N-17 (5.0-6.0)	10/19/2012	10655-034	5.0-6.0	ND	ND	ND	ND	ND	ND	0
N-17E	N-17E (2.0-4.0)	4/17/2013	03482-002	2.0-4.0	ND	196	ND	ND	ND	ND	196
N-17N	N-17N (0-2.0)	4/17/2013	03482-003	0.0-2.0	ND	6.93	ND	ND	ND	ND	6.93
N-18	N-18 (0-2.0)	10/19/2012	10655-027	0.0-2.0	ND	1200	ND	ND	ND	ND	1200
	N-18 (2.0-3.0)	10/19/2012	10655-028	2.0-3.0	ND	0.267	ND	ND	ND	ND	0.267
	N-18 (3.0-4.0)	10/19/2012	10655-029	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	N-18 (4.0-6.0)	10/19/2012	10655-030	4.0-6.0	ND	ND	ND	ND	ND	ND	0
N-18E	N-18E (0-2.0)	4/17/2013	03482-004	0.0-2.0	ND	4.69	ND	ND	ND	ND	4.69
N-18N	N-18N (0-2.0)	4/17/2013	03482-001	0.0-2.0	ND	31.8	ND	ND	ND	ND	31.8
N-18S	N-18S (0-2.0)	4/17/2013	03482-019	0.0-2.0	ND	15300	ND	ND	ND	ND	15300
	N-18S (2.0-4.0)	4/17/2013	03482-020	2.0-4.0	ND	1.37	ND	ND	ND	ND	1.37
N-18S(1)	N-18S(1) (0-2.0)	8/15/2013	07948-015	0.0-2.0	ND	3.87	ND	ND	ND	ND	3.87
N-18W	N-18W (0-2.0)	4/17/2013	03482-021	0.0-2.0	ND	270	ND	ND	ND	ND	270
N-19	N-19 (0-2.0)	9/12/2012	09240-001	0.0-2.0	ND	260	ND	ND	ND	ND	260
	N-19 (2.0-4.0)	9/12/2012	09240-002	2.0-4.0	ND	99.2	ND	ND	ND	ND	99.2
	N-19 (4.0-5.0)	9/12/2012	09240-003	4.0-5.0	ND	6.99	ND	ND	ND	ND	6.99
	N-19 (5.0-6.0)	9/12/2012	09240-004	5.0-6.0	ND	2.52	ND	ND	ND	ND	2.52
N-19E	N-19E (2.0-4.0)	4/17/2013	03482-014	2.0-4.0	ND	57	ND	ND	ND	ND	57
N-19S	N-19S (0-2.0)	4/17/2013	03482-015	0.0-2.0	ND	76.5	ND	ND	ND	ND	76.5
	N-19S (2.0-4.0)	4/17/2013	03482-016	2.0-4.0	ND	0.506	ND	ND	ND	ND	0.506
N-19W	N-19W (0-2.0)	4/17/2013	03482-017	0.0-2.0	ND	0.193	ND	ND	ND	ND	0.193
	N-19W (2.0-4.0)	4/17/2013	03482-018	2.0-4.0	ND	ND	ND	ND	ND	ND	0
N-20	N-20 (0-2.0)	9/11/2012	09199-050	0.0-2.0	ND	11.2	ND	ND	ND	ND	11.2
	N-20 (2.0-4.0)	9/11/2012	09199-051	2.0-4.0	ND	21.1	ND	ND	ND	ND	21.1
	N-20 (4.0-5.0)	9/11/2012	09199-052	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	N-20 (5.0-6.0)	9/11/2012	09199-053	5.0-6.0	ND	0.176	ND	ND	ND	ND	0.176
N-21	N-21 (0-2.0)	9/11/2012	09199-046	0.0-2.0	ND	0.249	ND	ND	ND	ND	0.249
	N-21 (2.0-4.0)	9/11/2012	09199-047	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	N-21 (4.0-5.25)	9/11/2012	09199-048	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	N-21 (5.25-6.0)	9/11/2012	09199-049	5.25-6.0	ND	0.035	J ND	ND	ND	ND	0.035

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CARLSTADT, NJ
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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
N-33	N-33 (2.0-4.0)	8/21/2013	08149-018	2.0-4.0	ND	0.359	ND	ND	ND	ND	0.359
	ADS-6	Jun-92	G-28	0-0.5							0.7
N-34	N-34 (0.0-2.0)	7/26/2012	07543-028	0.0-2.0	ND	1.55	ND	ND	ND	ND	1.55
	N-34 (2.0-4.0)	7/26/2012	07543-029	2.0-4.0	ND	0.191	ND	ND	ND	ND	0.191
	N-34 (4.0-5.25)	7/26/2012	07543-030	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	N-34 (5.25-6.0)	7/26/2012	07543-031	5.25-6.0	ND	ND	ND	ND	ND	ND	0
	G-28A	11/14/1994	G-28	3.0-3.5	ND	140	ND	ND	NA	NA	140
	G-28N	6/8/1995	G-28 Native	7.0-7.5	ND	0.053	ND	ND	NA	NA	0.053
N-34S	N-34S (2.0-4.0)	8/21/2013	08149-014	2.0-4.0	ND	ND	ND	ND	ND	ND	0
N-35	N-35 (0.0-2.0)	7/26/2012	07543-032	0.0-2.0	ND	0.341	ND	ND	ND	ND	0.341
	N-35 (2.0-3.0)	7/26/2012	07543-033	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	N-35 (3.0-4.0)	7/26/2012	07543-034	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	N-35 (4.0-6.0)	7/26/2012	07543-035	4.0-6.0	ND	ND	ND	ND	ND	ND	0
N-36	N-36 (0.0-2.0)	7/26/2012	07543-024	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	N-36 (2.0-4.0)	7/26/2012	07543-025	2.0-4.0	ND	0.183	ND	ND	ND	ND	0.183
	N-36 (4.0-5.0)	7/26/2012	07543-026	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	N-36 (5.0-6.0)	7/26/2012	07543-027	5.0-6.0	ND	ND	ND	ND	ND	ND	0
N-37	N-37 (0.0-2.0)	7/11/2012	06899-025	0.0-2.0	ND	1.76	ND	ND	ND	ND	1.76
	N-37 (2.0-4.0)	7/11/2012	06899-026	2.0-4.0	ND	2.7	ND	0.572	ND	ND	3.272
	N-37 (4.0-6.0)	7/11/2012	06899-027	4.0-6.0	ND	ND	ND	ND	ND	ND	0
N-38	N-38 (0.0-2.0)	7/11/2012	06899-001	0.0-2.0	ND	6.74	ND	ND	ND	ND	6.74
	N-38 (2.0-4.0)	7/11/2012	06899-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	N-38 (4.0-6.0)	7/11/2012	06899-003	4.0-6.0	ND	ND	ND	ND	ND	ND	0
N-39	N-39 (0.0-2.0)	7/10/2012	06841-056	0.0-2.0	ND	33.4	ND	ND	ND	ND	33.4
	N-39 (2.0-4.0)	7/10/2012	06841-057	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	N-39 (4.0-6.0)	7/10/2012	06841-058	4.0-6.0	ND	ND	ND	ND	ND	ND	0
N-40	N-40 (0.0-2.0)	7/10/2012	06841-034	0.0-2.0	ND	102	ND	ND	ND	ND	102
	N-40 (2.0-4.0)	7/10/2012	06841-035	2.0-4.0	ND	30.7	ND	ND	ND	ND	30.7
	N-40 (4.0-6.0)	7/10/2012	06841-036	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	N-40 (6.0-8.0)	7/10/2012	06841-037	6.0-8.0	ND	ND	ND	ND	ND	ND	0
N-41	N-41 (0.0-2.0)	7/10/2012	06841-031	0.0-2.0	ND	1270	ND	ND	ND	ND	1270
	N-41 (2.0-4.0)	7/10/2012	06841-032	2.0-4.0	25.4	ND	ND	ND	ND	ND	25.4
	N-41 (4.0-6.0)	7/10/2012	06841-033	4.0-6.0	ND	0.893	ND	ND	ND	ND	0.893
N-41N	N-41N(0-2.0)	5/2/2013	04028-014	0.0-2.0	ND	344	ND	ND	ND	ND	344
N-41S	N-41S(0-2.0)	5/2/2013	04028-016	0.0-2.0	ND	34	ND	ND	ND	ND	34
N-41W	N-41W(0-2.0)	5/2/2013	04028-015	0.0-2.0	ND	1070	ND	ND	ND	ND	1070
N-42	N-42 (0.0-2.0)	7/10/2012	06841-019	0.0-2.0	ND	21.8	ND	3.15	ND	ND	24.95
	N-42 (2.0-4.0)	7/10/2012	06841-020	2.0-4.0	ND	20.7	ND	ND	ND	ND	20.7
	N-42 (4.0-6.0)	7/10/2012	06841-021	4.0-6.0	ND	1.72	ND	ND	ND	ND	1.72
N-43	N-43 (0.0-2.0)	7/10/2012	06841-007	0.0-2.0	ND	7	ND	ND	ND	ND	7
	N-43 (2.0-4.0)	7/10/2012	06841-008	2.0-4.0	ND	12.5	ND	ND	ND	ND	12.5
	N-43 (4.0-6.0)	7/10/2012	06841-009	4.0-6.0	ND	35	ND	ND	ND	ND	35
N-44	N-44 (0.0-2.0)	7/10/2012	06841-004	0.0-2.0	ND	145	ND	ND	ND	ND	145
	N-44 (2.0-4.0)	7/10/2012	06841-005	2.0-4.0	ND	372	ND	ND	ND	ND	372
	N-44 (4.0-6.0)	7/10/2012	06841-006	4.0-6.0	654	ND	ND	ND	ND	ND	654
	N-44 (5.0-5.5)	8/10/2012	08167-014	5.0-5.5	ND	83.4	ND	ND	ND	ND	83.4
	N-44 (5.5-6.0)	8/10/2012	08167-015	5.5-6.0	ND	15.9	ND	ND	ND	ND	15.9
	N-44 (6.0-6.5)	8/10/2012	08167-016	6.0-6.5	ND	0.612	ND	ND	ND	ND	0.612
N-44E	N-44E (4.0-6.0)	5/2/2013	04028-002	4.0-6.0	ND	605	ND	46.4	ND	ND	651.4
N-44N	N-44N (4.0-6.0)	5/2/2013	04028-003	4.0-6.0	ND	134	ND	ND	ND	ND	134
N-44S	N-44S (4.0-6.0)	5/2/2013	04028-001	4.0-6.0	ND	703	ND	204	ND	ND	907
N-44W	N-44W (4.0-6.0)	5/2/2013	04028-004	4.0-6.0	ND	280	ND	ND	ND	ND	280
N-45	N-45 (0-2.0)	7/6/2012	06741-036	0.0-2.0	ND	143	ND	ND	ND	ND	143
	N-45 (2.0-4.0)	7/6/2012	06741-037	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	N-45 (4.0-6.0)	7/6/2012	06741-038	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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N-46	N-46 (0-2.0)	9/5/2012	09000-005	0.0-2.0	ND	59.3	ND	ND	ND	ND	59.3
	N-46 (2.0-4.0)	9/5/2012	09000-006	2.0-4.0	ND	2.42	ND	ND	ND	ND	2.42
N-46W	N-46W (0-2.0)	9/10/2013	08844-001	0.0-2.0	ND	0.164	ND	ND	ND	ND	0.164
N-47	N-47 (0-2.0)	9/5/2012	09000-003	0.0-2.0	ND	1.25	ND	ND	ND	ND	1.25
	N-47 (2.0-4.0)	9/5/2012	09000-004	2.0-4.0	ND	ND	ND	ND	ND	ND	0
O-4	PP-12	3/3/1993	G-1	0-0.5	ND	33	ND	1.2	NA	NA	34.2
O-9	O-9 (0.0-2.0)	8/1/2012	07780-042	0.0-2.0	ND	3.64	ND	ND	ND	ND	3.64
	O-9 (2.0-4.0)	8/1/2012	07780-043	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	O-9 (4.0-4.5)	8/1/2012	07780-044	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	O-9 (4.5-6.0)	8/1/2012	07780-045	4.5-6.0	ND	ND	ND	ND	ND	ND	0
O-10	O-10 (0.0-2.0)	8/1/2012	07780-039	0.0-2.0	ND	0.573	ND	ND	ND	ND	0.573
	O-10 (2.0-4.0)	8/1/2012	07780-040	2.0-4.0	ND	8.23	ND	ND	ND	ND	8.23
	O-10 (4.0-6.0)	8/1/2012	07780-041	4.0-6.0	ND	ND	ND	ND	ND	ND	0
O-11	O-11 (0.0-2.0)	8/1/2012	07780-035	0.0-2.0	ND	7.38	ND	ND	ND	ND	7.38
	O-11 (2.0-4.0)	8/1/2012	07780-036	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	O-11 (4.0-4.75)	8/1/2012	07780-037	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	O-11 (4.75-6.0)	8/1/2012	07780-038	4.75-6.0	ND	ND	ND	ND	ND	ND	0
O-12	O-12 (0.0-2.0)	7/20/2012	07337-005	0.0-2.0	ND	ND	ND	0.467	ND	ND	0.467
	O-12 (2.0-3.5)	7/20/2012	07337-006	2.0-3.5	ND	ND	ND	ND	ND	ND	0
	O-12 (3.5-4.0)	7/20/2012	07337-007	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	O-12 (4.0-6.0)	7/20/2012	07337-008	4.0-6.0	ND	ND	ND	ND	ND	ND	0
O-13	O-13 (0.0-2.0)	7/20/2012	07337-009	0.0-2.0	ND	0.992	ND	ND	ND	ND	0.992
	O-13 (2.0-4.0)	7/20/2012	07337-010	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	O-13 (4.0-4.5)	7/20/2012	07337-011	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	O-13 (4.5-6.0)	7/20/2012	07337-012	4.5-6.0	ND	ND	ND	ND	ND	ND	0
O-14	O-14 (0.0-2.0)	7/30/2012	07662-022	0.0-2.0	ND	14.2	ND	ND	ND	ND	14.2
	O-14 (2.0-2.5)	7/30/2012	07662-023	2.0-2.5	ND	0.296	ND	ND	ND	ND	0.296
	O-14 (2.5-4.0)	7/30/2012	07662-024	2.5-4.0	ND	ND	ND	ND	ND	ND	0
	O-14 (4.0-6.0)	7/30/2012	07662-025	4.0-6.0	ND	0.515	ND	ND	ND	ND	0.515
	G-12B	11/9/1994	G-12	3.0-3.5	ND	1.1	ND	ND	NA	NA	1.1
	G-12A	11/9/1994	G-12	0.5-1.0	ND	0.094	ND	ND	NA	NA	0.094
O-15	O-15 (0.0-2.0)	7/30/2012	07662-030	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	O-15 (2.0-4.0)	7/30/2012	07662-031	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	O-15 (4.0-6.0)	7/30/2012	07662-032	4.0-6.0	ND	0.042	J	ND	ND	ND	0.042
O-16	O-16 (0-2.0)	9/11/2012	09199-025	0.0-2.0	ND	1.47	ND	ND	ND	ND	1.47
	O-16 (2.0-4.0)	9/11/2012	09199-026	2.0-4.0	ND	0.21	ND	ND	ND	ND	0.21
	O-16 (4.0-5.0)	9/11/2012	09199-027	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	O-16 (5.0-6.0)	9/11/2012	09199-028	5.0-6.0	ND	0.086	ND	ND	ND	ND	0.086
O-16W	O-16W (0-2.0)	8/15/2013	07948-013	0.0-2.0	ND	33.1	ND	ND	ND	ND	33.1
O-17	O-17 (0-2.0)	9/11/2012	09199-029	0.0-2.0	ND	257	ND	ND	ND	ND	257
	O-17 (2.0-4.0)	9/11/2012	09199-030	2.0-4.0	ND	112	ND	ND	ND	ND	112
	O-17 (4.0-4.5)	9/11/2012	09199-031	4.0-4.5	ND	1.97	ND	ND	ND	ND	1.97
	O-17 (4.5-5.25)	9/11/2012	09199-032	4.5-5.25	ND	0.979	ND	ND	ND	ND	0.979
	O-17 (5.25-6.0)	9/11/2012	09199-033	5.25-6.0	ND	ND	ND	ND	ND	ND	0
O-17N	O-17N (0-2.0)	4/10/2013	03222-022	0.0-2.0	ND	125	ND	ND	ND	ND	125
	O-17N (2.0-4.0)	4/10/2013	03222-023	2.0-4.0	ND	192	ND	ND	ND	ND	192
O-18	O-18 (0-2.0)	9/11/2012	09199-034	0.0-2.0	ND	470	ND	ND	ND	ND	470
	O-18 (2.0-4.0)	9/11/2012	09199-035	2.0-4.0	ND	282	ND	ND	ND	ND	282
	O-18 (4.0-5.0)	9/11/2012	09199-036	4.0-5.0	ND	2.01	ND	ND	ND	ND	2.01
	O-18 (5.0-6.0)	9/11/2012	09199-037	5.0-6.0	ND	0.34	ND	ND	ND	ND	0.34
O-18E	O-18E (4.0-6.0)	4/17/2013	03482-006	4.0-6.0	ND	1660	ND	ND	ND	ND	1660
	O-18S (2.0-4.0)	4/17/2013	03482-005	2.0-4.0	ND	19	ND	ND	ND	ND	19
O-19	O-19 (0-2.0)	9/11/2012	09199-038	0.0-2.0	ND	51.2	ND	ND	ND	ND	51.2
	O-19 (2.0-4.0)	9/11/2012	09199-039	2.0-4.0	ND	3.79	ND	ND	ND	ND	3.79
	O-19 (4.0-5.0)	9/11/2012	09199-040	4.0-5.0	ND	0.409	ND	ND	ND	ND	0.409
	O-19 (5.0-6.0)	9/11/2012	09199-041	5.0-6.0	ND	ND	ND	ND	ND	ND	0

TABLE 1
ARSYNCO, INC
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TRACT 1 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
O-20	O-20 (0.0-2.0)	8/7/2012	07988-032	0.0-2.0	ND	1480	ND	ND	ND	ND	1480
	O-20 (2.0-3.5)	8/7/2012	07988-033	2.0-3.5	ND	30.3	ND	ND	ND	ND	30.3
	O-20 (4.0-6.0)	8/7/2012	07988-034	4.0-6.0	ND	0.082	ND	ND	ND	ND	0.082
O-20E	O-20E (0-2.0)	4/17/2013	03482-011	0.0-2.0	ND	65.4	ND	ND	ND	ND	65.4
O-20N	O-20N (0-2.0)	4/17/2013	03482-010	0.0-2.0	ND	101	ND	ND	ND	ND	101
O-20S	O-20S (0-2.0)	4/17/2013	03482-012	0.0-2.0	ND	31.6	ND	ND	ND	ND	31.6
O-20W	O-20W (0-2.0)	4/17/2013	03482-013	0.0-2.0	ND	130	ND	ND	ND	ND	130
O-21	O-21 (0-2.0)	9/11/2012	09199-042	0.0-2.0	ND	0.226	ND	ND	ND	ND	0.226
	O-21 (2.0-4.0)	9/11/2012	09199-043	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	O-21 (4.0-5.0)	9/11/2012	09199-044	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	O-21 (5.0-6.0)	9/11/2012	09199-045	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-16B	11/11/1994	G-16	2.5-3.0	ND	1.1	ND	0.26	NA	NA	1.36
	G-16A	11/11/1994	G-16	0.5-1.0	ND	0.58	ND	0.21	NA	NA	0.79
O-36	O-36 (0.0-2.0)	7/26/2012	07543-005	0.0-2.0	ND	1.11	ND	0.323	ND	ND	1.433
	O-36 (2.0-4.0)	7/26/2012	07543-006	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	O-36 (4.0-4.75)	7/26/2012	07543-007	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	O-36 (4.75-6.0)	7/26/2012	07543-008	4.75-6.0	ND	ND	ND	ND	ND	ND	0
O-37	O-37 (0.0-2.0)	7/26/2012	07543-009	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	O-37 (2.0-4.0)	7/26/2012	07543-010	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	O-37 (4.25-6.0)	7/26/2012	07543-011	4.25-6.0	ND	ND	ND	ND	ND	ND	0
O-38	O-38 (0.0-2.0)	7/26/2012	07543-012	0.0-2.0	ND	0.224	ND	ND	ND	ND	0.224
	O-38 (2.0-4.0)	7/26/2012	07543-013	2.0-4.0	ND	0.068	ND	ND	ND	ND	0.068
	O-38 (4.0-5.0)	7/26/2012	07543-014	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	O-38 (5.0-6.0)	7/26/2012	07543-015	5.0-6.0	ND	ND	ND	ND	ND	ND	0
O-38N	O-38N (0-2.0)	8/22/2013	08218-001	0.0-2.0	ND	0.182	ND	ND	ND	ND	0.182
O-39	O-39 (0.0-2.0)	7/26/2012	07543-016	0.0-2.0	ND	7.39	14.2	ND	ND	ND	21.59
	O-39 (2.0-4.0)	7/26/2012	07543-017	2.0-4.0	ND	0.066	ND	ND	ND	ND	0.066
	O-39 (4.0-5.25)	7/26/2012	07543-018	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	O-39 (5.25-6.0)	7/26/2012	07543-019	5.25-6.0	ND	ND	ND	ND	ND	ND	0
O-40	O-40 (0.0-2.0)	7/26/2012	07543-020	0.0-2.0	ND	113	ND	19.7	ND	ND	132.7
	O-40 (2.0-4.0)	7/26/2012	07543-021	2.0-4.0	ND	363	ND	60.2	ND	ND	423.2
	O-40 (4.0-5.0)	7/26/2012	07543-022	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	O-40 (5.0-6.0)	7/26/2012	07543-023	5.0-6.0	ND	ND	ND	ND	ND	ND	0
O-41	O-41 (0.0-2.0)	8/1/2012	07780-026	0.0-2.0	ND	245	ND	ND	ND	ND	245
	O-41 (2.0-4.0)	8/1/2012	07780-027	2.0-4.0	ND	ND	4030	ND	ND	ND	4030
	O-41 (4.25-6.0)	8/1/2012	07780-028	4.25-6.0	ND	ND	1.49	ND	ND	ND	1.49
	O-41 (6.0-8.0)	8/1/2012	07780-029	6.0-8.0	ND	0.53	0.411	ND	ND	ND	0.941
O-41N	O-41N(2.0-4.0)	5/2/2013	04028-011	2.0-4.0	ND	2.5	ND	0.377	ND	ND	2.877
O-41S	O-41S(2.0-4.0)	5/2/2013	04028-010	2.0-4.0	ND	109	ND	44.5	ND	ND	153.5
O-41W	O-41W(0-2.0)	5/2/2013	04028-012	0.0-2.0	ND	1030	ND	ND	ND	ND	1030
	O-41W(2.0-4.0)	5/2/2013	04028-013	2.0-4.0	ND	162	ND	ND	ND	ND	162
O-42	O-42 (0.0-2.0)	7/10/2012	06841-016	0.0-2.0	ND	233	ND	ND	ND	ND	233
	O-42 (2.0-4.0)	7/10/2012	06841-017	2.0-4.0	ND	ND	ND	8.43	ND	ND	8.43
	O-42 (4.0-6.0)	7/10/2012	06841-018	4.0-6.0	ND	20	27.9	ND	ND	ND	47.9
O-43	O-43 (0.0-2.0)	7/16/2012	07070-020	0.0-2.0	ND	14.7	ND	ND	ND	ND	14.7
	O-43 (2.0-4.0)	7/16/2012	07070-021	2.0-4.0	ND	ND	475	ND	ND	ND	475
	O-43 (4.0-6.0)	7/16/2012	07070-022	4.0-6.0	ND	ND	66.9	48.4	ND	ND	115.3
	O-43 (6.0-8.0)	7/16/2012	07070-023	6.0-8.0	ND	1.91	ND	1.19	ND	ND	3.1
O-44	O-44 (0.0-2.0)	7/10/2012	06841-001	0.0-2.0	ND	56.9	ND	ND	ND	ND	56.9
	O-44 (2.0-4.0)	7/10/2012	06841-002	2.0-4.0	ND	134	ND	ND	ND	ND	134
	O-44 (4.0-6.0)	7/10/2012	06841-003	4.0-6.0	ND	0.234	ND	ND	ND	ND	0.234
O-44S	O-44S (2.0-4.0)	8/22/2013	08218-013	2.0-4.0	ND	2.46	ND	ND	ND	ND	2.46

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O-45	O-45 (0-2.0)	7/6/2012	06741-033	0.0-2.0	ND	14.3	ND	ND	ND	ND	14.3
	O-45 (2.0-4.0)	7/6/2012	06741-034	2.0-4.0	ND	0.425	ND	ND	ND	ND	0.425
	O-45 (4.0-6.0)	7/6/2012	06741-035	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-31B	11/15/1994	G-31	2.5-3.0	ND	120	ND	24	NA	NA	144
	G-31A	11/15/1994	G-31	0.0-0.5	ND	24	ND	ND	NA	NA	24
	G-31N	2/19/1996	G-31 Native	9.0-10.0	ND	1.31	ND	ND	NA	NA	1.31
O-46	O-46 (0-2.0)	7/6/2012	06741-030	0.0-2.0	ND	11.3	ND	4.11	ND	ND	15.41
	O-46 (2.0-4.0)	7/6/2012	06741-031	2.0-4.0	ND	107	ND	ND	ND	ND	107
	O-46 (4.0-6.0)	7/6/2012	06741-032	4.0-6.0	ND	ND	ND	ND	ND	ND	0
O-46E	O-46E (2.0-4.0)	5/1/2013	03992-034	2.0-4.0	ND	0.136	ND	ND	ND	ND	0.136
O-46N	O-46N (2.0-4.0)	5/1/2013	03992-036	2.0-4.0	ND	2.82	ND	13.8	ND	ND	16.62
O-46S	O-46S (2.0-4.0)	5/1/2013	03992-035	2.0-4.0	ND	170	ND	32.2	ND	ND	202.2
O-46W	O-46W (0-2.0)	5/1/2013	03992-037	0.0-2.0	ND	21.2	ND	12.8	ND	ND	34
	O-46W (2.0-4.0)	5/1/2013	03992-038	2.0-4.0	ND	3.26	ND	ND	ND	ND	3.26
O-47	O-47 (0-2.0)	9/5/2012	09000-001	0.0-2.0	ND	17.4	ND	ND	ND	ND	17.4
	O-47 (2.0-4.0)	9/5/2012	09000-002	2.0-4.0	ND	2.88	ND	ND	ND	ND	2.88
	G-31C	6/2/1995	E of G-31	0-0.5	ND	9.3	5.1	1.4	NA	NA	15.8
	G-31D	6/9/1995	E of G-31	4.5-5.0	ND	ND	ND	ND	NA	NA	0
	VIII-19	11/30/2001	G-31	2.5-3.0'	ND	0.27	ND	0.036	NA	NA	0.306
P-7	G-1B	11/9/1994	G-1	3.0-3.5	ND	0.54	ND	ND	NA	NA	0.54
	G-1A	11/9/1994	G-1	0.25-0.75	ND	ND	ND	ND	NA	NA	0
P-8	P-8 (0-2.0)	7/31/2012	07685-031	0.0-2.0	ND	0.679	ND	ND	ND	ND	0.679
	P-8 (2.0-4.0)	7/31/2012	07685-032	2.0-4.0	ND	0.717	ND	ND	ND	ND	0.717
	P-8 (4.0-5.0)	7/31/2012	07685-033	4.0-5.0	ND	0.149	ND	ND	ND	ND	0.149
	P-8 (5.0-6.0)	7/31/2012	07685-034	5.0-6.0	ND	0.055	ND	ND	ND	ND	0.055
P-9	P-9 (0.0-2.0)	8/1/2012	07780-046	0.0-2.0	ND	0.631	ND	ND	ND	ND	0.631
	P-9 (2.0-3.25)	8/1/2012	07780-047	2.0-3.25	ND	ND	ND	ND	ND	ND	0
	P-9 (3.25-4.0)	8/1/2012	07780-048	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	P-9 (4.0-6.0)	8/1/2012	07780-049	4.0-6.0	ND	ND	ND	ND	ND	ND	0
P-10	P-10 (0-2.0)	9/12/2012	09240-028	0.0-2.0	ND	3.73	ND	ND	ND	ND	3.73
	P-10 (2.0-4.0)	9/12/2012	09240-029	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	P-10 (4.0-5.0)	9/12/2012	09240-030	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	P-10 (5.0-6.0)	9/12/2012	09240-031	5.0-6.0	ND	ND	ND	ND	ND	ND	0
P-11	P-11 (0.0-2.0)	7/27/2012	07626-041	0.0-2.0	ND	0.117	ND	ND	ND	ND	0.117
	P-11 (2.0-4.0)	7/27/2012	07626-042	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	P-11 (4.0-4.5)	7/27/2012	07626-043	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	P-11 (4.5-6.0)	7/27/2012	07626-044	4.5-6.0	ND	ND	ND	ND	ND	ND	0
P-12	P-12 (0.0-2.0)	7/27/2012	07626-033	0.0-2.0	ND	24.3	ND	ND	ND	ND	24.3
	P-12 (2.0-4.0)	7/27/2012	07626-034	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	P-12 (4.0-4.5)	7/27/2012	07626-035	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	P-12 (4.5-6.0)	7/27/2012	07626-036	4.5-6.0	ND	ND	ND	ND	ND	ND	0
P-13	P-13 (0.0-2.0)	7/27/2012	07626-037	0.0-2.0	ND	3.53	ND	ND	ND	ND	3.53
	P-13 (2.0-4.0)	7/27/2012	07626-038	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	P-13 (4.0-4.5)	7/27/2012	07626-039	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	P-13 (4.5-6.0)	7/27/2012	07626-040	4.5-6.0	ND	ND	ND	ND	ND	ND	0
P-14	P-14 (0.0-2.0)	7/18/2012	07162-021	0.0-2.0	ND	1.13	ND	ND	ND	ND	1.13
	P-14 (2.0-2.5)	7/18/2012	07162-022	2.0-2.5	ND	ND	ND	ND	ND	ND	0
	P-14 (2.5-4.0)	7/18/2012	07162-023	2.5-4.0	ND	ND	ND	ND	ND	ND	0
	P-14 (4.0-6.0)	7/18/2012	07162-024	4.0-6.0	ND	ND	ND	ND	ND	ND	0
P-15	P-15 (0.0-2.0)	7/30/2012	07662-033	0.0-2.0	ND	18.2	ND	ND	ND	ND	18.2
	P-15 (2.0-4.0)	7/30/2012	07662-034	2.0-4.0	ND	0.7	ND	ND	ND	ND	0.7
	P-15 (4.0-5.0)	9/11/2012	09199-021	4.0-5.0	ND	595	ND	ND	ND	ND	595
	P-15 (4.0-6.0)	7/30/2012	07662-035	4.0-6.0	ND	3060	ND	ND	ND	ND	3060
	P-15 (5.0-6.0)	9/11/2012	09199-022	5.0-6.0	ND	301	ND	ND	ND	ND	301
	P-15 (6.0-7.0)	9/11/2012	09199-023	6.0-7.0	ND	21500	ND	ND	ND	ND	21500
	P-15 (7.0-8.0)	9/11/2012	09199-024	7.0-8.0	ND	ND	ND	ND	ND	ND	0
	P-15 (8.0-9.0)	10/22/2012	10687-001	8.0-9.0	ND	5090	ND	ND	ND	ND	5090
	P-15 (9.0-10.0)	10/22/2012	10687-002	9.0-10.0	ND	28.8	ND	ND	ND	ND	28.8

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P-15E	P-15E (0-2.0)	4/10/2013	03222-007	0.0-2.0	ND	16.5	ND	ND	ND	ND	16.5
	P-15E (4.0-6.0)	4/10/2013	03222-008	4.0-6.0	ND	493	ND	ND	ND	ND	493
	P-15E (6.0-8.0)	4/10/2013	03222-009	6.0-8.0	ND	216	ND	ND	ND	ND	216
	P-15E (8.0-10.0)	4/10/2013	03222-010	8.0-10.0	ND	89.8	ND	ND	ND	ND	89.8
P-15E(1)	P-15E(1) (6.0-8.0)	8/15/2013	07948-005	6.0-8.0	ND	327	ND	ND	ND	ND	327
P-15E(2)	P-15E(2) (6.0-8.0)	8/15/2013	07948-006	6.0-8.0	ND	0.234	ND	ND	ND	ND	0.234
P-15N	P-15N (4.0-6.0)	4/10/2013	03222-011	4.0-6.0	ND	2.17	ND	ND	ND	ND	2.17
	P-15N (6.0-8.0)	4/10/2013	03222-012	6.0-8.0	ND	0.207	ND	ND	ND	ND	0.207
	P-15N (8.0-10.0)	4/10/2013	03222-013	8.0-10.0	ND	0.036	J	ND	ND	ND	0.036
P-15S	P-15S (4.0-6.0)	4/11/2013	03283-001	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	P-15S (6.0-8.0)	4/11/2013	03283-002	6.0-8.0	ND	ND	ND	ND	ND	ND	0
	P-15S (8.0-10.0)	4/11/2013	03283-003	8.0-10.0	ND	ND	ND	ND	ND	ND	0
P-15W	P-15W (4.0-6.0)	4/10/2013	03222-014	4.0-6.0	ND	1.81	ND	ND	ND	ND	1.81
	P-15W (6.0-8.0)	4/10/2013	03222-015	6.0-8.0	ND	ND	ND	ND	ND	ND	0
	P-15W (8.0-10.0)	4/10/2013	03222-016	8.0-10.0	ND	ND	ND	ND	ND	ND	0
P-16	P-16 (0-2.0)	8/13/2012	08194-052	0.0-2.0	ND	0.466	ND	ND	ND	ND	0.466
	P-16 (2.0-3.75)	8/13/2012	08194-053	2.0-3.75	3.8	ND	ND	ND	ND	ND	3.8
	P-16 (4.0-6.0)	8/13/2012	08194-054	4.0-6.0	ND	0.233	ND	ND	ND	ND	0.233
P-17	P-17 (0-2.0)	8/10/2012	08167-037	0.0-2.0	ND	89	ND	ND	ND	ND	89
	P-17 (2.0-4.0)	8/10/2012	08167-038	2.0-4.0	ND	7330	ND	ND	ND	ND	7330
	P-17 (4.0-6.0)	8/10/2012	08167-039	4.0-6.0	ND	7.62	ND	ND	ND	ND	7.62
P-17N	P-17N (0-2.0)	4/10/2013	03222-017	0.0-2.0	ND	3.42	ND	ND	ND	ND	3.42
	P-17N (2.0-4.0)	4/10/2013	03222-018	2.0-4.0	ND	2.61	ND	ND	ND	ND	2.61
P-17S	P-17S (2.0-4.0)	4/10/2013	03222-020	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	P-17S (4.0-6.0)	4/10/2013	03222-021	4.0-6.0	ND	ND	ND	ND	ND	ND	0
P-17W	P-17W (2.0-4.0)	4/10/2013	03222-019	2.0-4.0	ND	6.61	ND	ND	ND	ND	6.61
P-18	P-18 (0-2.0)	9/12/2012	09240-005	0.0-2.0	ND	458	ND	ND	ND	ND	458
	P-18 (2.0-4.0)	9/12/2012	09240-006	2.0-4.0	ND	403	ND	ND	ND	ND	403
	P-18 (4.0-5.0)	9/12/2012	09240-007	4.0-5.0	ND	202	ND	ND	ND	ND	202
	P-18 (5.0-5.25)	9/12/2012	09240-008	5.0-5.25	ND	66.6	ND	ND	ND	ND	66.6
	P-18 (5.25-6.0)	9/12/2012	09240-009	5.25-6.0	ND	0.112	ND	ND	ND	ND	0.112
P-19	P-19 (0.0-2.0)	8/7/2012	07988-028	0.0-2.0	ND	790	ND	ND	ND	ND	790
	P-19 (2.0-4.0)	8/7/2012	07988-029	2.0-4.0	1.64	ND	ND	ND	ND	ND	1.64
	P-19 (4.0-4.5)	8/7/2012	07988-030	4.0-4.5	0.967	ND	ND	ND	ND	ND	0.967
	P-19 (4.5-6.0)	8/7/2012	07988-031	4.5-6.0	ND	ND	ND	ND	ND	ND	0
P-19E	P-19E (0-2.0)	4/17/2013	03482-009	0.0-2.0	ND	45.3	ND	ND	ND	ND	45.3
P-19N	P-19N (0-2.0)	4/18/2013	03562-001	0.0-2.0	ND	360	ND	ND	ND	ND	360
	P-19N (2.0-4.0)	4/18/2013	03562-002	2.0-4.0	ND	20.8	ND	ND	ND	ND	20.8
	P-19N (4.0-5.0)	4/18/2013	03562-003	4.0-5.0	ND	0.161	J	ND	ND	ND	0.161
	P-19N (5.0-6.0)	4/18/2013	03562-004	5.0-6.0	ND	ND	ND	ND	ND	ND	0
P-19S	P-19S (0-2.0)	4/17/2013	03482-008	0.0-2.0	ND	0.783	ND	0.416	ND	ND	1.199
P-19W	P-19W(0-2.0)	4/17/2013	03482-007	0.0-2.0	ND	356	ND	ND	ND	ND	356
P-20	P-20 (0.0-2.0)	7/12/2012	06968-046	0.0-2.0	ND	50.6	ND	ND	ND	ND	50.6
	P-20 (2.0-4.0)	7/12/2012	06968-047	2.0-4.0	ND	3.78	ND	ND	ND	ND	3.78
	P-20 (4.0-6.0)	7/12/2012	06968-048	4.0-6.0	ND	ND	ND	ND	ND	ND	0
P-20S	P-20S (0-2.0)	4/18/2013	03562-005	0.0-2.0	ND	57.5	ND	ND	ND	ND	57.5
P-21	P-21 (0.0-2.0)	8/7/2012	07988-024	0.0-2.0	ND	10.2	ND	ND	ND	ND	10.2
	P-21 (2.0-3.25)	8/7/2012	07988-025	2.0-3.25	ND	7.26	ND	ND	ND	ND	7.26
	P-21 (3.25-3.5)	8/7/2012	07988-026	3.25-3.5	ND	2.21	ND	ND	ND	ND	2.21
	P-21 (4.25-6.0)	8/7/2012	07988-027	4.25-6.0	ND	ND	ND	ND	ND	ND	0
P-22	P-22 (0-2.0)	4/3/2013	02986-009	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	P-22 (2.0-4.0)	4/3/2013	02986-010	2.0-4.0	ND	ND	ND	ND	ND	ND	0

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
P-36	P-36 (0.0-2.0)	7/26/2012	07543-001	0.0-2.0	ND	13.7	ND	ND	ND	ND	13.7
	P-36 (2.0-4.0)	7/26/2012	07543-002	2.0-4.0	ND	6.94	ND	ND	ND	ND	6.94
	P-36 (4.0-5.25)	7/26/2012	07543-003	4.0-5.25	ND	0.754	ND	ND	ND	ND	0.754
	P-36 (5.25-6.0)	7/26/2012	07543-004	5.25-6.0	ND	0.035	J ND	ND	ND	ND	0.035
P-37	P-37 (0.0-2.0)	7/25/2012	07487-061	0.0-2.0	ND	7.49	ND	2.33	ND	ND	9.82
	P-37 (2.0-3.5)	7/25/2012	07487-062	2.0-4.0	ND	ND	ND	0.212	ND	ND	0.212
	P-37 (3.5-4.0)	7/25/2012	07487-063	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	P-37 (4.0-6.0)	7/25/2012	07487-064	5.0-6.0	ND	ND	ND	ND	ND	ND	0
P-38	P-38 (0.0-2.0)	7/25/2012	07487-057	0.0-2.0	ND	ND	54.6	53	ND	ND	107.6
	P-38 (2.0-4.0)	7/25/2012	07487-058	2.0-4.0	90.1	ND	ND	ND	ND	ND	90.1
	P-38 (4.0-5.0)	7/25/2012	07487-059	4.0-5.0	ND	15	ND	10.8	ND	ND	25.8
	P-38 (5.0-6.0)	7/25/2012	07487-060	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-29A	11/14/1994	G-29	0.0-0.5	ND	81	ND	12	NA	NA	93
	G-29B	11/14/1994	G-29	2.5-3.0	ND	1.3	ND	ND	NA	NA	1.3
P-39	P-39 (0.0-1.75)	7/25/2012	07487-045	0.0-1.75	ND	65	ND	31.2	ND	ND	96.2
	P-39 (1.75-2.0)	7/25/2012	07487-046	1.75-2.0	ND	ND	ND	3540	ND	ND	3540
	P-39 (2.0-3.0)	7/25/2012	07487-047	2.0-3.0	ND	ND	ND	47	ND	ND	47
	P-39 (3.0-4.0)	7/25/2012	07487-048	3.0-4.0	ND	ND	1520	ND	ND	ND	1520
	P-39 (4.0-4.25)	7/25/2012	07487-049	4.0-4.25	ND	1970	4580	2550	ND	ND	9100
	P-39 (4.25-6.0)	7/25/2012	07487-050	4.25-6.0	ND	ND	2.79	ND	ND	ND	2.79
	P-39 (6.0-8.0)	7/25/2012	07487-051	6.0-8.0	ND	ND	ND	ND	ND	ND	0
P-39N	P-39N (0-2.0)	5/1/2013	03992-008	0.0-2.0	ND	100	ND	13.5	ND	ND	113.5
	P-39N (2.0-4.0)	5/1/2013	03992-009	2.0-4.0	ND	ND	244	94.5	ND	ND	338.5
	P-39N (4.0-6.0)	5/1/2013	03992-010	4.0-6.0	ND	ND	822	332	ND	ND	1154
P-39S	P-39S (0-2.0)	5/1/2013	03992-006	0.0-2.0	ND	48.7	ND	127	ND	ND	175.7
	P-39S (2.0-4.0)	5/1/2013	03992-007	2.0-4.0	ND	0.083	ND	0.13	ND	ND	0.213
P-39S(1)	P-39S(1) (2.0-4.0)	8/22/2013	08218-006	2.0-4.0	ND	ND	ND	439	ND	ND	439
	P-39S(1) (6.0-8.0)	8/22/2013	08218-007	6.0-8.0	ND	103	ND	93.4	ND	ND	196.4
P-39W	P-39W (0-2.0)	5/1/2013	03992-011	0.0-2.0	ND	9.93	ND	12.4	ND	ND	22.33
	P-39W (2.0-4.0)	5/1/2013	03992-012	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	P-39W (4.0-5.25)	5/1/2013	03992-013	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	P-39W (5.25-6.0)	5/1/2013	03992-014	5.25-6.0	ND	ND	ND	ND	ND	ND	0
P-40	P-40 (0.0-2.0)	7/25/2012	07487-052	0.0-2.0	ND	24.5	ND	14.5	ND	ND	39
	P-40 (2.0-4.0)	7/25/2012	07487-053	2.0-4.0	ND	0.335	ND	0.503	ND	ND	0.838
	P-40 (4.0-5.0)	7/25/2012	07487-054	4.0-5.0	ND	ND	ND	804	ND	ND	804
	P-40 (5.0-6.0)	7/25/2012	07487-055	5.0-6.0	ND	ND	1.18	ND	ND	ND	1.18
	P-40 (6.0-8.0)	7/25/2012	07487-056	6.0-8.0	ND	ND	2.82	2.69	ND	ND	5.51
P-40E	P-40E (4.0-6.0)	4/29/2013	03912-024	4.0-6.0	ND	1.37	1.98	1.98	ND	ND	5.33
P-40W	P-40W (4.0-5.0)	5/1/2013	03992-015	4.0-5.0	ND	0.029	J ND	ND	ND	ND	0.029
	P-40W (5.0-6.0)	5/1/2013	03992-016	5.0-6.0	ND	8.36	ND	4.53	ND	ND	12.89
P-41	P-41 (0.0-2.0)	7/16/2012	07070-027	0.0-2.0	ND	97.9	81.3	ND	ND	ND	179.2
	P-41 (2.0-4.0)	7/16/2012	07070-028	2.0-4.0	ND	19.3	17.4	ND	ND	ND	36.7
	P-41 (4.0-5.0)	7/16/2012	07070-029	4.0-5.0	ND	3410	4590	ND	ND	ND	8000
	P-41 (5.0-6.0)	7/16/2012	07070-030	4.0-6.0	ND	ND	13.3	ND	ND	ND	13.3
	P-41 (6.0-8.0)	7/16/2012	07070-031	6.0-8.0	ND	19.2	28.2	ND	ND	ND	47.4
	PP-1	3/3/1993	G-30	0-0.5	ND	ND	ND	0.18	NA	NA	0.18
P-41S	P-41S (2.0-4.0)	5/1/2013	03992-004	2.0-4.0	ND	72	ND	23.8	ND	ND	95.8
	P-41S (4.0-6.0)	5/1/2013	03992-005	4.0-6.0	ND	ND	1580	ND	ND	ND	1580
P-41W	P-41W (2.0-4.0)	5/1/2013	03992-017	2.0-4.0	ND	48.7	ND	25.4	ND	ND	74.1
	P-41W (4.0-6.0)	5/1/2013	03992-018	4.0-6.0	ND	ND	18.1	ND	ND	ND	18.1
P-42	P-42 (0.0-2.0)	7/16/2012	07070-024	0.0-2.0	ND	60.8	ND	46.7	ND	ND	107.5
	P-42 (2.0-4.0)	7/16/2012	07070-025	2.0-4.0	ND	ND	165	ND	ND	ND	165
	P-42 (4.0-6.0)	7/16/2012	07070-026	4.0-6.0	ND	7.1	5.57	ND	ND	ND	12.67

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P-43	P-43 (0.0-2.0)	7/10/2012	06841-010	0.0-2.0	ND	34.5	31.2	ND	ND	ND	65.7
	P-43 (2.0-4.0)	7/10/2012	06841-011	2.0-4.0	ND	ND	33.7	46.2	ND	ND	79.9
	P-43 (4.0-5.0)	7/10/2012	06841-012	4.0-5.0	ND	ND	22200	ND	ND	ND	22200
	P-43 (5.0-6.0)	7/10/2012	06841-013	5.0-6.0	ND	ND	1120	ND	ND	ND	1120
	P-43 (6.0-8.0)	7/10/2012	06841-014	6.0-8.0	ND	23	18.1	ND	ND	ND	41.1
	P-43 (8.0-10.0)	7/10/2012	06841-015	8.0-10.0	ND	ND	26.7	ND	ND	ND	26.7
P-43N	P-43N (4.0-6.0)	5/1/2013	03992-003	4.0-6.0	ND	186	ND	112	ND	ND	298
P-43S	P-43S (2.0-4.0)	8/22/2013	08218-012	2.0-4.0	ND	10.7	ND	8.13	ND	ND	18.83
P-43W	P-43W (4.0-6.0)	5/1/2013	03992-019	4.0-6.0	ND	716	ND	176	ND	ND	892
P-44	P-44 (0-2.0)	7/6/2012	06741-021	0.0-2.0	ND	38.2	ND	12	ND	ND	50.2
	P-44 (2.0-4.0)	7/6/2012	06741-022	2.0-4.0	ND	12.6	ND	6.02	ND	ND	18.62
	P-44 (4.0-6.0)	7/6/2012	06741-023	4.0-6.0	ND	7420	ND	ND	ND	ND	7420
	P-44 (5.0-5.5)	8/13/2012	08194-001	5.0-5.5	ND	144	ND	ND	ND	ND	144
	P-44 (5.5-6.0)	8/13/2012	08194-002	5.5-6.0	ND	72.3	ND	ND	ND	ND	72.3
	P-44 (6.0-6.5)	8/13/2012	08194-003	6.0-6.5	ND	5.34	ND	ND	ND	ND	5.34
P-44E	P-44E (4.0-6.0)	5/1/2013	03992-021	4.0-6.0	ND	7.22	ND	3.07	ND	ND	10.29
P-44S	P-44S (4.0-6.0)	5/1/2013	03992-033	4.0-6.0	ND	10000	ND	ND	ND	ND	10000
P-44W	P-44W (4.0-6.0)	5/1/2013	03992-020	4.0-6.0	ND	1	ND	ND	ND	ND	1
P-45	P-45 (0-2.0)	7/6/2012	06741-024	0.0-2.0	ND	207	ND	ND	ND	ND	207
	P-45 (2.0-4.0)	7/6/2012	06741-025	2.0-4.0	ND	3.94	ND	ND	ND	ND	3.94
	P-45 (4.0-6.0)	7/6/2012	06741-026	4.0-6.0	ND	1.56	ND	ND	ND	ND	1.56
P-45E	P-45E (0-2.0)	5/1/2013	03992-029	0.0-2.0	ND	4.98	ND	2.68	ND	ND	7.66
	P-45E (2.0-4.0)	5/1/2013	03992-030	2.0-4.0	ND	37	21.7	ND	ND	ND	58.7
P-45E(1)	P-45E(1) (4.0-6.0)	8/22/2013	08218-014	4.0-6.0	ND	0.592	ND	ND	ND	ND	0.592
P-45S	P-45S (0-2.0)	5/1/2013	03992-032	0.0-2.0	ND	0.989	ND	ND	ND	ND	0.989
P-46	P-46 (0-2.0)	7/6/2012	06741-027	0.0-2.0	ND	17.6	ND	6.02	ND	ND	23.62
	P-46 (2.0-4.0)	7/6/2012	06741-028	2.0-4.0	ND	0.186	ND	ND	ND	ND	0.186
	P-46 (4.0-6.0)	7/6/2012	06741-029	4.0-6.0	ND	0.276	ND	ND	ND	ND	0.276
P-47	P-47 (0.0-2.0)	7/16/2012	07070-017	0.0-2.0	ND	30.5	ND	ND	ND	ND	30.5
	P-47 (2.0-4.0)	7/16/2012	07070-018	2.0-4.0	ND	0.419	ND	ND	ND	ND	0.419
	P-47 (4.0-6.0)	7/16/2012	07070-019	4.0-6.0	ND	ND	ND	ND	ND	ND	0
Q-8	Q-8 (0-2.0)	7/31/2012	07685-035	0.0-2.0	ND	1.54	ND	ND	ND	ND	1.54
	Q-8 (2.0-4.0)	7/31/2012	07685-036	2.0-4.0	ND	1.13	ND	ND	ND	ND	1.13
	Q-8 (4.0-4.5)	7/31/2012	07685-037	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	Q-8 (4.5-6.0)	7/31/2012	07685-038	4.5-6.0	ND	ND	ND	ND	ND	ND	0
Q-9	Q-9 (0-2.0)	7/31/2012	07685-026	0.0-2.0	ND	3.82	ND	ND	ND	ND	3.82
	Q-9 (2.0-4.0)	7/31/2012	07685-027	2.0-4.0	ND	7.8	ND	ND	ND	ND	7.8
	Q-9 (4.0-5.0)	7/31/2012	07685-028	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Q-9 (5.0-6.0)	7/31/2012	07685-029	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	Q-9 (6.0-8.0)	7/31/2012	07685-030	6.0-8.0	ND	ND	ND	ND	ND	ND	0
Q-10	Q-10 (0.0-2.0)	7/30/2012	07662-039	0.0-2.0	ND	1.52	ND	ND	ND	ND	1.52
	Q-10 (2.0-4.0)	7/30/2012	07662-040	2.0-4.0	ND	0.052	ND	ND	ND	ND	0.052
	Q-10 (4.0-4.75)	7/30/2012	07662-041	4.0-4.75	ND	0.068	ND	ND	ND	ND	0.068
	Q-10 (4.75-6.0)	7/30/2012	07662-042	4.75-6.0	ND	0.042	J ND	ND	ND	ND	0.042
Q-11	Q-11 (0.0-2.0)	7/30/2012	07662-018	0.0-2.0	ND	7.48	ND	ND	ND	ND	7.48
	Q-11 (2.0-4.0)	7/30/2012	07662-019	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Q-11 (4.25-5.25)	7/30/2012	07662-020	4.25-5.25	ND	ND	ND	ND	ND	ND	0
	Q-11 (5.25-6.0)	7/30/2012	07662-021	5.25-6.0	ND	ND	ND	ND	ND	ND	0
Q-12	Q-12 (0.0-2.0)	7/30/2012	07662-036	0.0-2.0	ND	2810	ND	ND	ND	ND	2810
	Q-12 (2.0-4.0)	7/30/2012	07662-037	2.0-4.0	442	ND	ND	ND	ND	ND	442
	Q-12 (4.0-5.0)	9/12/2012	09240-032	4.0-5.0	ND	3.3	ND	ND	ND	ND	3.3
	Q-12 (4.0-6.0)	7/30/2012	07662-038	4.0-6.0	86.6	ND	ND	ND	ND	ND	86.6
	Q-12 (5.0-6.0)	9/12/2012	09240-033	5.0-6.0	ND	3.92	ND	ND	ND	ND	3.92
	Q-12 (6.0-7.0)	9/12/2012	09240-034	6.0-7.0	ND	0.345	ND	ND	ND	ND	0.345
	Q-12 (7.0-8.0)	9/12/2012	09240-035	7.0-8.0	ND	ND	ND	ND	ND	ND	0

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Q-12E	Q-12E (0-2.0)	4/18/2013	03562-006	0.0-2.0	ND	74.4	ND	ND	ND	ND	74.4
	Q-12E (4.0-6.0)	4/18/2013	03562-007	4.0-6.0	ND	0.265	ND	ND	ND	ND	0.265
Q-12N	Q-12N (0-2.0)	4/18/2013	03562-014	0.0-2.0	ND	10.5	ND	ND	ND	ND	10.5
	Q-12N (2.0-4.0)	4/18/2013	03562-015	2.0-4.0	ND	5.45	ND	ND	ND	ND	5.45
	Q-12N (4.0-6.0)	4/18/2013	03562-016	4.0-6.0	ND	7300	ND	ND	ND	ND	7300
Q-12S	Q-12S (0-2.0)	4/18/2013	03562-008	0.0-2.0	ND	712	ND	ND	ND	ND	712
	Q-12S (2.0-4.0)	4/18/2013	03562-009	2.0-4.0	ND	0.193	ND	ND	ND	ND	0.193
	Q-12S (4.0-6.0)	4/18/2013	03562-010	4.0-6.0	ND	215	ND	ND	ND	ND	215
Q-12S(1)	Q-12S(1) (4.0-5.0)	8/21/2013	08149-001	4.0-5.0	0.868	ND	ND	ND	ND	ND	0.868
	Q-12S(1) (5.0-6.0)	8/21/2013	08149-002	5.0-6.0	ND	0.355	ND	ND	ND	ND	0.355
Q-12W	Q-12W (0-2.0)	4/18/2013	03562-011	0.0-2.0	ND	47.3	ND	ND	ND	ND	47.3
	Q-12W (2.0-4.0)	4/18/2013	03562-012	2.0-4.0	ND	17.4	ND	ND	ND	ND	17.4
	Q-12W (4.0-6.0)	4/18/2013	03562-013	4.0-6.0	ND	10.7	ND	ND	ND	ND	10.7
Q-13	Q-13 (0.0-2.0)	7/18/2012	07162-013	0.0-2.0	ND	15.9	ND	ND	ND	ND	15.9
	Q-13 (2.0-3.5)	7/18/2012	07162-014	2.0-3.5	ND	0.501	ND	ND	ND	ND	0.501
	Q-13 (3.5-4.0)	7/18/2012	07162-015	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	Q-13 (4.0-6.0)	7/18/2012	07162-016	4.0-6.0	ND	0.029	J ND	ND	ND	ND	0.029
Q-14	Q-14 (0.0-2.0)	7/18/2012	07162-017	0.0-2.0	ND	27.1	ND	ND	ND	ND	27.1
	Q-14 (2.0-3.5)	7/18/2012	07162-018	2.0-3.5	ND	0.3	ND	ND	ND	ND	0.3
	Q-14 (3.5-4.0)	7/18/2012	07162-019	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	Q-14 (4.0-6.0)	7/18/2012	07162-020	4.0-6.0	ND	ND	ND	ND	ND	ND	0
Q-15	Q-15 (0.0-2.0)	7/18/2012	07162-037	0.0-2.0	ND	569	ND	ND	ND	ND	569
	Q-15 (2.0-3.25)	7/18/2012	07162-038	2.0-3.25	ND	1.33	ND	ND	ND	ND	1.33
	Q-15 (3.25-4.0)	7/18/2012	07162-039	3.25-4.0	4.48	ND	ND	ND	ND	ND	4.48
	Q-15 (4.0-6.0)	7/18/2012	07162-040	4.0-6.0	0.053	ND	ND	ND	ND	ND	0.053
	Q-15 (6.0-8.0)	8/15/2013	07948-007	6.0-8.0	ND	63.7	ND	ND	ND	ND	63.7
Q-15E	Q-15E (0-2.0)	4/10/2013	03222-005	0.0-2.0	ND	525	ND	ND	ND	ND	525
Q-15N	Q-15N (0-2.0)	4/10/2013	03222-006	0.0-2.0	ND	1520	ND	ND	ND	ND	1520
Q-15S	Q-15S (0-2.0)	4/10/2013	03222-003	0.0-2.0	ND	11.6	ND	ND	ND	ND	11.6
	Q-15S (2.0-4.0)	4/10/2013	03222-004	2.0-4.0	ND	32.6	ND	ND	ND	ND	32.6
Q-16	Q-16 (0.0-2.0)	7/18/2012	07162-033	0.0-2.0	ND	198	ND	ND	ND	ND	198
	Q-16 (2.0-3.0)	7/18/2012	07162-034	2.0-3.0	ND	58.5	ND	ND	ND	ND	58.5
	Q-16 (3.0-4.0)	7/18/2012	07162-035	3.0-4.0	ND	11.9	ND	ND	ND	ND	11.9
	Q-16 (4.0-6.0)	7/18/2012	07162-036	4.0-6.0	ND	1.63	ND	ND	ND	ND	1.63
Q-16E	Q-16E (2.0-4.0)	4/10/2013	03222-002	2.0-4.0	ND	1330	ND	ND	ND	ND	1330
Q-16W	Q-16W (0-2.0)	4/9/2013	03191-038	0.0-2.0	ND	1.08	ND	ND	ND	ND	1.08
	Q-16W (2.0-4.0)	4/9/2013	03191-039	2.0-4.0	ND	4.7	ND	ND	ND	ND	4.7
Q-17	Q-17 (0-2.0)	8/10/2012	08167-033	0.0-2.0	ND	4680	ND	ND	ND	ND	4680
	Q-17 (2.0-3.75)	8/10/2012	08167-034	2.0-3.75	ND	17300	ND	ND	ND	ND	17300
	Q-17 (4.0-4.5)	8/10/2012	08167-035	4.0-4.5	ND	162	ND	ND	ND	ND	162
	Q-17 (4.5-6.0)	8/10/2012	08167-036	4.5-6.0	ND	1.42	ND	ND	ND	ND	1.42
Q-17E	Q-17E (0-2.0)	4/9/2013	03191-031	0.0-2.0	ND	724	ND	ND	ND	ND	724
	Q-17E (4.0-5.0)	4/9/2013	03191-032	4.0-5.0	1.18	ND	ND	ND	ND	ND	1.18
	Q-17E (5.0-6.0)	4/9/2013	03191-033	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Q-17N	Q-17N (0-2.0)	4/9/2013	03191-034	0.0-2.0	ND	2190	ND	ND	ND	ND	2190
	Q-17N (2.0-4.0)	4/9/2013	03191-035	2.0-4.0	ND	4.8	ND	ND	ND	ND	4.8
	Q-17N (4.0-5.0)	4/9/2013	03191-036	4.0-5.0	ND	24.9	ND	ND	ND	ND	24.9
	Q-17N (5.0-6.0)	4/9/2013	03191-037	5.0-6.0	ND	0.417	ND	ND	ND	ND	0.417
Q-17S	Q-17S (4.0-5.0)	4/9/2013	03191-029	4.0-5.0	0.334	ND	ND	ND	ND	ND	0.334
	Q-17S (5.0-6.0)	4/9/2013	03191-030	5.0-6.0	0.127	ND	ND	ND	ND	ND	0.127
Q-17W	Q-17W (0-2.0)	4/10/2013	03222-001	0.0-2.0	ND	401	ND	ND	ND	ND	401
Q-18	Q-18 (0-2.0)	9/12/2012	09240-010	0.0-2.0	ND	821	ND	ND	ND	ND	821
	Q-18 (2.0-4.0)	9/12/2012	09240-011	2.0-4.0	ND	2690	ND	ND	ND	ND	2690
	Q-18 (4.0-4.5)	9/12/2012	09240-012	4.0-4.5	ND	19.2	ND	ND	ND	ND	19.2
	Q-18 (4.5-6.0)	9/12/2012	09240-013	4.5-6.0	ND	0.289	ND	ND	ND	ND	0.289

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All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
Q-18E	Q-18E (0-2.0)	4/9/2013	03191-020	0.0-2.0	ND	0.157	ND	ND	ND	ND	0.157
	Q-18E (2.0-4.0)	4/9/2013	03191-023	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Q-18E (4.0-5.0)	4/9/2013	03191-021	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Q-18E (5.0-6.0)	4/9/2013	03191-022	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Q-18S	Q-18S (0-2.0)	4/9/2013	03191-024	0.0-2.0	ND	2.83	ND	ND	ND	ND	2.83
	Q-18S (2.0-4.0)	4/9/2013	03191-025	2.0-4.0	ND	1.23	ND	ND	ND	ND	1.23
Q-18W	Q-18W (0-2.0)	4/9/2013	03191-026	0.0-2.0	ND	22.9	ND	ND	ND	ND	22.9
	Q-18W (2.0-4.0)	4/9/2013	03191-027	2.0-4.0	ND	20	ND	ND	ND	ND	20
	Q-18W (4.0-6.0)	4/9/2013	03191-028	4.0-6.0	ND	21.8	ND	ND	ND	ND	21.8
Q-19	Q-19 (0.0-2.0)	7/13/2012	07021-019	0.0-2.0	ND	2.84	ND	0.513	ND	ND	3.353
	Q-19 (2.0-4.0)	7/13/2012	07021-020	2.0-4.0	ND	0.063	ND	ND	ND	ND	0.063
	Q-19 (4.0-6.0)	7/13/2012	07021-021	4.0-6.0	ND	ND	ND	ND	ND	ND	0
Q-20	Q-20 (0.0-2.0)	7/12/2012	06968-049	0.0-2.0	ND	392	ND	ND	ND	ND	392
	Q-20 (2.0-4.0)	7/12/2012	06968-050	2.0-4.0	ND	20.9	ND	ND	ND	ND	20.9
	Q-20 (4.0-6.0)	7/12/2012	06968-051	4.0-6.0	ND	0.355	ND	ND	ND	ND	0.355
Q-20E	Q-20E (0-2.0)	4/10/2013	03222-029	0.0-2.0	ND	37.4	ND	ND	ND	ND	37.4
Q-20N	Q-20N (0-2.0)	4/10/2013	03222-028	0.0-2.0	ND	1750	ND	ND	ND	ND	1750
Q-21	Q-21 (0.0-2.0)	7/12/2012	06968-043	0.0-2.0	ND	474	ND	ND	ND	ND	474
	Q-21 (2.0-4.0)	7/12/2012	06968-044	2.0-4.0	ND	372	ND	ND	ND	ND	372
	Q-21 (4.0-6.0)	7/12/2012	06968-045	4.0-6.0	ND	1.43	ND	ND	ND	ND	1.43
Q-21E	Q-21E (0-2.0)	4/19/2013	03615-028	0.0-2.0	30.1	ND	ND	ND	ND	ND	30.1
	Q-21E (2.0-4.0)	4/19/2013	03615-029	2.0-4.0	1.74	ND	0.465	ND	ND	ND	2.205
Q-21S	Q-21S (0-2.0)	4/19/2013	03615-026	0.0-2.0	ND	7.76	ND	ND	ND	ND	7.76
	Q-21S (2.0-4.0)	4/19/2013	03615-027	2.0-4.0	2.22	ND	ND	ND	ND	ND	2.22
Q-21W	Q-21W (0-2.0)	4/19/2013	03615-024	0.0-2.0	ND	3.93	ND	ND	ND	ND	3.93
	Q-21W (2.0-4.0)	4/19/2013	03615-025	2.0-4.0	2.43	ND	ND	ND	ND	ND	2.43
Q-22	Q-22 (0.0-2.0)	8/7/2012	07988-021	0.0-2.0	ND	9.78	ND	ND	ND	ND	9.78
	Q-22 (2.0-4.0)	8/7/2012	07988-022	2.0-4.0	ND	11.4	ND	ND	ND	ND	11.4
	Q-22 (4.0-6.0)	8/7/2012	07988-023	4.0-6.0	ND	0.072	ND	ND	ND	ND	0.072
Q-36	Q-36 (0.0-2.0)	7/25/2012	07487-031	0.0-2.0	ND	1.42	ND	0.63	ND	ND	2.05
	Q-36 (2.0-4.0)	7/25/2012	07487-032	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Q-36 (4.0-5.0)	7/25/2012	07487-033	4.0-5.0	ND	ND	ND	0.198	ND	ND	0.198
	Q-36 (5.0-6.0)	7/25/2012	07487-034	5.0-6.0	ND	ND	0.042	J 0.027	J ND	ND	0.069
Q-37	Q-37 (0.0-2.0)	8/1/2012	07780-022	0.0-2.0	ND	ND	5.3	5	ND	ND	10.3
	Q-37 (2.0-4.0)	8/1/2012	07780-023	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Q-37 (4.0-5.0)	8/1/2012	07780-024	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Q-37 (5.0-6.0)	8/1/2012	07780-025	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Q-38	Q-38 (0.0-2.0)	7/25/2012	07487-035	0.0-2.0	ND	ND	543	244	ND	ND	787
	Q-38 (2.0-4.0)	7/25/2012	07487-036	2.0-4.0	ND	ND	281	182	ND	ND	463
	Q-38 (4.0-4.75)	7/25/2012	07487-037	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	Q-38 (4.75-6.0)	7/25/2012	07487-038	4.75-6.0	ND	ND	ND	ND	ND	ND	0
Q-38N	Q-38N (0-2.0)	4/29/2013	03912-021	0.0-2.0	ND	ND	ND	857	ND	ND	857
Q-38W	Q-38W (0-2.0)	4/29/2013	03912-022	0.0-2.0	ND	ND	728	461	ND	ND	1189
Q-39	Q-39 (0.0-2.0)	7/25/2012	07487-039	0.0-2.0	ND	19.5	ND	19.9	ND	ND	39.4
	Q-39 (2.0-3.0)	7/25/2012	07487-040	2.0-3.0	ND	ND	15.5	24.7	ND	ND	40.2
	Q-39 (3.0-4.0)	7/25/2012	07487-041	3.0-4.0	ND	ND	ND	18800	ND	ND	18800
	Q-39 (4.0-6.0)	7/25/2012	07487-042	4.0-6.0	ND	ND	ND	4220	ND	ND	4220
	Q-39 (6.0-7.0)	7/25/2012	07487-043	6.0-7.0	ND	113	ND	419	ND	ND	532
	Q-39 (7.0-8.0)	7/25/2012	07487-044	7.0-8.0	ND	ND	ND	ND	ND	ND	0
Q-39E	Q-39E (4.0-6.0)	4/29/2013	03912-001	4.0-6.0	ND	ND	ND	833	ND	ND	833
	Q-39E (6.0-8.0)	4/29/2013	03912-002	6.0-8.0	ND	ND	ND	10.2	ND	ND	10.2
Q-39N	Q-39N (0-2.0)	4/29/2013	03912-017	0.0-2.0	ND	ND	20.8	21.7	ND	ND	42.5
	Q-39N (2.0-4.0)	4/29/2013	03912-018	2.0-4.0	ND	ND	712	849	ND	ND	1561
	Q-39N (4.0-6.0)	4/29/2013	03912-019	4.0-6.0	ND	ND	2660	2830	ND	ND	5490
	Q-39N (6.0-8.0)	4/29/2013	03912-020	6.0-8.0	ND	ND	ND	2.11	ND	ND	2.11

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Q-39S	Q-39S (2.0-4.0)	4/29/2013	03912-014	2.0-4.0	ND	6.69	ND	3.32	ND	ND	10.01
	Q-39S (4.0-6.0)	4/29/2013	03912-015	4.0-6.0	ND	ND	ND	983	ND	ND	983
	Q-39S (6.0-8.0)	4/29/2013	03912-016	6.0-8.0	ND	ND	ND	2990	ND	ND	2990
Q-39W	Q-39W (0-2.0)	4/29/2013	03912-023	0.0-2.0	ND	ND	126	132	ND	ND	258
Q-39W(1)	Q-39W(1) (6.0-8.0)	8/22/2013	08218-002	6.0-8.0	ND	ND	20.2	ND	ND	ND	20.2
Q-40	Q-40 (0.0-2.0)	7/16/2012	07070-027	0.0-2.0	ND	24.5	ND	ND	ND	ND	24.5
	Q-40 (2.0-4.0)	7/16/2012	07070-028	2.0-4.0	ND	105	ND	250	ND	ND	355
	Q-40 (4.0-6.0)	7/16/2012	07070-029	4.0-6.0	ND	ND	ND	9.09	ND	ND	9.09
	Q-40 (6.0-6.5)	8/13/2012	08194-009	6.0-6.5	ND	ND	ND	3.67	ND	ND	3.67
	Q-40 (6.0-8.0)	7/16/2012	07070-030	6.0-8.0	ND	ND	54.8	39.9	ND	ND	94.7
	Q-40 (7.0-7.5)	8/13/2012	08194-010	7.0-7.5	ND	ND	ND	3.3	ND	ND	3.3
	Q-40 (8.0-8.5)	8/13/2012	08194-011	8.0-8.5	ND	0.68	ND	0.702	ND	ND	1.382
Q-41	Q-41 (0.0-2.0)	7/16/2012	07070-036	0.0-2.0	ND	9.08	ND	ND	ND	ND	9.08
	Q-41 (10.0-12.0)	7/16/2012	07070-041	10.0-12.0	ND	ND	ND	10.5	ND	ND	10.5
	Q-41 (2.0-4.0)	7/16/2012	07070-037	2.0-4.0	ND	58.3	ND	45.2	ND	ND	103.5
	Q-41 (4.0-6.0)	7/16/2012	07070-038	4.0-6.0	ND	ND	ND	ND	26300	ND	26300
	Q-41 (6.0-8.0)	7/16/2012	07070-039	6.0-8.0	ND	ND	40.3	56.5	ND	ND	96.8
	Q-41 (8.0-10.0)	7/16/2012	07070-040	8.0-10.0	ND	ND	ND	782	ND	ND	782
Q-41E	Q-41E (2.0-4.0)	4/29/2013	03912-006	2.0-4.0	ND	ND	944	ND	ND	ND	944
	Q-41E (6.0-7.0)	8/22/2013	08218-009	6.0-7.0	ND	ND	0.846	0.911	ND	ND	1.757
	Q-41E (7.0-8.0)	8/22/2013	08218-010	7.0-8.0	ND	ND	0.034	0.029	ND	ND	0.063
	Q-41E (8.0-10.0)	4/29/2013	03912-007	4.0-6.0	ND	ND	ND	0.24	ND	ND	0.24
Q-41N	Q-41N (4.0-6.0)	4/29/2013	03912-012	4.0-6.0	ND	ND	ND	5110	ND	ND	5110
	Q-41N (8.0-10.0)	4/29/2013	03912-013	8.0-10.0	ND	ND	ND	4.97	ND	ND	4.97
Q-41N(1)	Q-41N(1) (0-2.0)	8/22/2013	08218-008	0.0-2.0	ND	60.1	ND	9.74	ND	ND	69.84
Q-41S	Q-41S (2.0-4.0)	4/29/2013	03912-010	2.0-4.0	ND	ND	ND	793	ND	ND	793
	Q-41S (8.0-10.0)	4/29/2013	03912-011	8.0-10.0	ND	ND	0.88	0.839	ND	ND	1.719
Q-41W	Q-41W (8.0-10.0)	4/29/2013	03912-025	8.0-10.0	ND	ND	ND	0.433	ND	ND	0.433
Q-42	Q-42 (0.0-2.0)	7/16/2012	07070-042	0.0-2.0	ND	ND	131	162	ND	ND	293
	Q-42 (2.0-4.0)	7/16/2012	07070-043	2.0-4.0	ND	ND	240	327	ND	ND	567
	Q-42 (4.0-6.0)	7/16/2012	07070-044	4.0-6.0	ND	ND	5300	ND	ND	ND	5300
	Q-42 (6.0-8.0)	7/16/2012	07070-045	6.0-8.0	ND	ND	3.09	ND	ND	ND	3.09
	Q-42 (8.0-10.0)	7/16/2012	07070-046	8.0-10.0	ND	ND	ND	ND	ND	ND	0
Q-42E	Q-42E (4.0-6.0)	4/29/2013	03912-008	4.0-6.0	ND	ND	4090	ND	ND	ND	4090
Q-42W	Q-42W (2.0-4.0)	5/1/2013	03992-001	2.0-4.0	ND	6.22	ND	ND	ND	ND	6.22
	Q-42W (4.0-6.0)	5/1/2013	03992-002	4.0-6.0	ND	38.1	ND	12.2	ND	ND	50.3
Q-43	Q-43 (0.0-2.0)	7/16/2012	07070-047	0.0-2.0	ND	20.9	ND	ND	ND	ND	20.9
	Q-43 (2.0-4.0)	7/16/2012	07070-048	2.0-4.0	ND	10.3	ND	7.84	ND	ND	18.14
	Q-43 (4.0-6.0)	7/16/2012	07070-049	4.0-6.0	ND	ND	34000	ND	ND	ND	34000
	Q-43 (6.0-8.0)	7/16/2012	07070-050	6.0-8.0	ND	ND	1.57	ND	ND	ND	1.57
Q-43N	Q-43N (2.0-4.0)	4/29/2013	03912-009	2.0-4.0	ND	86.6	122	ND	ND	ND	208.6
Q-43S	Q-43S (0-2.0)	5/1/2013	03992-022	0.0-2.0	ND	29.9	ND	26.2	ND	ND	56.1
	Q-43S (4.0-5.0)	5/1/2013	03992-023	4.0-5.0	ND	48.5	ND	93.3	ND	ND	141.8
	Q-43S (5.0-6.0)	5/1/2013	03992-024	5.0-6.0	ND	1.58	ND	ND	ND	ND	1.58
Q-43S(1)	Q-43S(1) (0-2.0)	8/22/2013	08218-016	0.0-2.0	ND	7.28	ND	16.6	ND	ND	23.88
Q-44	Q-44 (0.0-2.0)	7/16/2012	07070-051	0.0-2.0	ND	38.5	ND	12.1	ND	ND	50.6
	Q-44 (2.0-4.0)	7/16/2012	07070-052	2.0-4.0	ND	9.97	11.1	ND	ND	ND	21.07
	Q-44 (4.0-6.0)	7/16/2012	07070-053	4.0-6.0	ND	0.185	ND	ND	ND	ND	0.185
Q-44E	Q-44E (0-2.0)	4/26/2013	03859-024	0.0-2.0	ND	6.99	ND	3.51	ND	ND	10.5
	Q-44E (4.0-6.0)	8/22/2013	08218-015	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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Q-45	Q-45 (0-2.0)	7/6/2012	06741-018	0.0-2.0	ND	13.2	ND	13	ND	ND	26.2
	Q-45 (2.0-4.0)	7/6/2012	06741-019	2.0-4.0	ND	60.3	ND	ND	ND	ND	60.3
	Q-45 (4.0-6.0)	7/6/2012	06741-020	4.0-6.0	ND	6.66	ND	ND	ND	ND	6.66
Q-45E	Q-45E (2.0-4.0)	4/26/2013	03859-025	2.0-4.0	ND	18.7	ND	ND	ND	ND	18.7
Q-45N	Q-45N (0-2.0)	5/1/2013	03992-025	0.0-2.0	ND	28	ND	3.47	ND	ND	31.47
	Q-45N (2.0-4.0)	5/1/2013	03992-026	2.0-4.0	ND	3.59	ND	2.71	ND	ND	6.3
Q-46	Q-46 (0-2.0)	7/6/2012	06741-014	0.0-2.0	ND	378	ND	ND	ND	ND	378
	Q-46 (2.0-4.0)	7/6/2012	06741-015	2.0-4.0	ND	2.1	ND	ND	ND	ND	2.1
	Q-46 (4.0-6.0)	7/6/2012	06741-016	4.0-6.0	ND	6.88	ND	ND	ND	ND	6.88
	Q-46 (6.0-8.0)	7/6/2012	06741-017	6.0-8.0	ND	1.2	ND	ND	ND	ND	1.2
Q-46N	Q-46N (0-2.0)	5/1/2013	03992-027	0.0-2.0	ND	4.67	ND	4.59	ND	ND	9.26
	Q-46N (2.0-4.0)	5/1/2013	03992-028	2.0-4.0	ND	85	ND	ND	ND	ND	85
Q-46W	Q-46W (0-2.0)	5/1/2013	03992-031	0.0-2.0	ND	199	ND	27.5	ND	ND	226.5
R-6	PP-11	3/3/1993	G-1	0-0.5	ND	0.62	ND	ND	NA	NA	0.62
R-8	R-8 (0-2.0)	7/31/2012	07685-039	0.0-2.0	ND	12.1	ND	ND	ND	ND	12.1
	R-8 (2.0-4.0)	7/31/2012	07685-040	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	R-8 (4.0-5.0)	7/31/2012	07685-041	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	R-8 (5.0-6.0)	7/31/2012	07685-042	5.0-6.0	ND	ND	ND	ND	ND	ND	0
R-9	R-9 (0-2.0)	7/31/2012	07685-021	0.0-2.0	ND	2.51	ND	ND	ND	ND	2.51
	R-9 (2.0-4.0)	7/31/2012	07685-022	2.0-4.0	ND	1.67	ND	ND	ND	ND	1.67
	R-9 (4.0-5.25)	7/31/2012	07685-023	4.0-5.25	ND	0.106	ND	ND	ND	ND	0.106
	R-9 (5.25-6.0)	7/31/2012	07685-024	5.25-6.0	ND	0.591	ND	ND	ND	ND	0.591
	R-9 (6.0-8.0)	7/31/2012	07685-025	6.0-8.0	ND	0.09	ND	ND	ND	ND	0.09
R-10	R-10 (0-2.0)	7/31/2012	07685-001	0.0-2.0	ND	0.619	ND	ND	ND	ND	0.619
	R-10 (2.0-4.0)	7/31/2012	07685-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	R-10 (4.25-5.25)	7/31/2012	07685-003	4.25-5.25	ND	ND	ND	ND	ND	ND	0
	R-10 (5.25-6.0)	7/31/2012	07685-004	5.25-6.0	ND	ND	ND	ND	ND	ND	0
R-11	R-11 (0.0-2.0)	7/30/2012	07662-014	0.0-2.0	ND	5.8	ND	ND	ND	ND	5.8
	R-11 (2.0-4.0)	7/30/2012	07662-015	2.0-4.0	56.7	ND	ND	ND	ND	ND	56.7
	R-11 (4.0-5.25)	7/30/2012	07662-016	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	R-11 (5.25-6.0)	7/30/2012	07662-017	5.25-6.0	ND	ND	ND	ND	ND	ND	0
R-11E	R-11E (2.0-4.0)	4/8/2013	03153-021	2.0-4.0	ND	ND	ND	ND	ND	ND	0
R-11N	R-11N (2.0-4.0)	4/8/2013	03153-020	2.0-4.0	ND	2.78	ND	ND	ND	ND	2.78
R-11W	R-11W (2.0-4.0)	4/8/2013	03153-019	2.0-4.0	ND	0.829	ND	ND	ND	ND	0.829
R-12	R-12 (0.0-2.0)	7/20/2012	07337-047	0.0-2.0	ND	133	ND	ND	ND	ND	133
	R-12 (2.0-4.0)	7/20/2012	07337-048	2.0-4.0	ND	152	ND	ND	ND	ND	152
	R-12 (4.0-6.0)	7/20/2012	07337-049	4.0-5.0	ND	0.178	ND	ND	ND	ND	0.178
	R-12 (6.0-6.5)	7/20/2012	07337-050	5.0-6.0	ND	42	ND	ND	ND	ND	42
	R-12 (6.5-8.0)	7/20/2012	07337-051	6.0-8.0	ND	0.249	ND	ND	ND	ND	0.249
R-12N	R-12N (0-2.0)	4/8/2013	03153-022	0.0-2.0	ND	112	ND	ND	ND	ND	112
R-13	R-13 (0.0-2.0)	7/27/2012	07626-029	0.0-2.0	ND	786	ND	ND	ND	ND	786
	R-13 (2.0-3.5)	7/27/2012	07626-030	2.0-3.5	1470	ND	ND	ND	ND	ND	1470
	R-13 (3.5-4.0)	7/27/2012	07626-031	3.5-4.0	101	ND	ND	ND	ND	ND	101
	R-13 (4.0-6.0)	7/27/2012	07626-032	4.0-6.0	ND	0.084	ND	ND	ND	ND	0.084
R-13E	R-13E (4.0-6.0)	4/8/2013	03153-009	4.0-6.0	0.364	ND	ND	ND	ND	ND	0.364
R-13N	R-13N (0-2.0)	4/8/2013	03153-023	0.0-2.0	ND	159	ND	ND	ND	ND	159
	R-13N (2.0-4.0)	4/8/2013	03153-024	2.0-4.0	ND	0.246	ND	ND	ND	ND	0.246
R-13S	R-13S (0-2.0)	4/9/2013	03191-001	0.0-2.0	ND	3.42	ND	ND	ND	ND	3.42
	R-13S (2.0-4.0)	4/9/2013	03191-002	2.0-4.0	ND	0.033	J ND	ND	ND	ND	0.033
R-13W	R-13W (0-2.0)	4/8/2013	03153-025	0.0-2.0	ND	852	ND	ND	ND	ND	852
	R-13W (2.0-4.0)	4/8/2013	03153-026	2.0-4.0	ND	0.245	ND	ND	ND	ND	0.245
R-14	R-14 (0.0-2.0)	7/18/2012	07162-009	0.0-2.0	ND	13.2	ND	ND	ND	ND	13.2
	R-14 (2.0-3.5)	7/18/2012	07162-010	2.0-3.5	ND	3.3	ND	ND	ND	ND	3.3
	R-14 (3.5-4.0)	7/18/2012	07162-011	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	R-14 (4.0-6.0)	7/18/2012	07162-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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R-15	R-15 (0.0-2.0)	7/18/2012	07162-029	0.0-2.0	ND	10.7	ND	ND	ND	ND	10.7
	R-15 (2.0-3.25)	7/18/2012	07162-030	2.0-3.25	ND	0.866	ND	ND	ND	ND	0.866
	R-15 (3.25-4.0)	7/18/2012	07162-031	3.25-4.0	ND	0.174	ND	ND	ND	ND	0.174
	R-15 (4.0-6.0)	7/18/2012	07162-032	4.0-6.0	ND	ND	ND	ND	ND	ND	0
R-16	R-16 (0.0-2.0)	7/18/2012	07162-025	0.0-2.0	ND	170	ND	ND	ND	ND	170
	R-16 (2.0-4.0)	7/18/2012	07162-026	2.0-4.0	ND	1.44	ND	ND	ND	ND	1.44
	R-16 (4.0-5.0)	7/18/2012	07162-027	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	R-16 (5.0-6.0)	7/18/2012	07162-028	5.0-6.0	ND	ND	ND	ND	ND	ND	0
R-16E	R-16E (0-2.0)	4/9/2013	03191-008	0.0-2.0	ND	34.9	ND	ND	ND	ND	34.9
R-16N	R-16N (0-2.0)	4/9/2013	03191-007	0.0-2.0	ND	78.9	ND	ND	ND	ND	78.9
R-17	R-17 (0-2.0)	8/10/2012	08167-029	0.0-2.0	ND	3.36	ND	ND	ND	ND	3.36
	R-17 (2.0-4.0)	8/10/2012	08167-030	2.0-4.0	ND	1760	ND	ND	ND	ND	1760
	R-17 (4.0-5.0)	8/10/2012	08167-031	4.0-5.0	ND	2270	ND	ND	ND	ND	2270
	R-17 (5.0-6.0)	8/10/2012	08167-032	5.0-6.0	ND	16.7	ND	ND	ND	ND	16.7
R-17E	R-17E (0-2.0)	8/21/2013	08149-006	0.0-2.0	ND	0.322	ND	ND	ND	ND	0.322
	R-17E (2.0-4.0)	4/9/2013	03191-012	2.0-4.0	ND	0.086	ND	ND	ND	ND	0.086
	R-17E (4.0-6.0)	4/9/2013	03191-013	4.0-6.0	ND	1.25	ND	ND	ND	ND	1.25
R-17N	R-17N (0-2.0)	4/9/2013	03191-009	0.0-2.0	ND	14.6	ND	ND	ND	ND	14.6
	R-17N (2.0-4.0)	4/9/2013	03191-010	2.0-4.0	ND	1010	ND	ND	ND	ND	1010
	R-17N (4.0-6.0)	4/9/2013	03191-011	4.0-6.0	ND	3070	ND	ND	ND	ND	3070
R-17S	R-17S (2.0-4.0)	4/9/2013	03191-014	2.0-4.0	ND	0.086	ND	ND	ND	ND	0.086
	R-17S (4.0-6.0)	4/9/2013	03191-015	4.0-6.0	ND	0.506	ND	ND	ND	ND	0.506
R-18	R-18 (0-2.0)	9/12/2012	09240-014	0.0-2.0	ND	134	ND	ND	ND	ND	134
	R-18 (2.0-4.0)	9/12/2012	09240-015	2.0-4.0	ND	0.644	ND	ND	ND	ND	0.644
	R-18 (4.0-5.0)	9/12/2012	09240-016	4.0-5.0	ND	293	ND	ND	ND	ND	293
	R-18 (5.0-6.0)	9/12/2012	09240-017	5.0-6.0	ND	4.78	ND	ND	ND	ND	4.78
	G-11A	11/10/1994	G-11	0.25-0.75	ND	ND	ND	ND	NA	NA	0
	G-11B	11/10/1994	G-11	2.5-3.0	ND	ND	ND	ND	NA	NA	0
R-18E	R-18E (0-2.0)	4/9/2013	03191-016	0.0-2.0	ND	67.3	ND	ND	ND	ND	67.3
	R-18E (4.0-6.0)	4/9/2013	03191-017	4.0-6.0	ND	0.048	ND	ND	ND	ND	0.048
R-18S	R-18S (0-2.0)	4/9/2013	03191-018	0.0-2.0	ND	0.984	ND	ND	ND	ND	0.984
	R-18S (4.0-6.0)	4/9/2013	03191-019	4.0-6.0	ND	0.048	ND	ND	ND	ND	0.048
R-19	R-19 (0.0-2.0)	7/13/2012	07021-016	0.0-2.0	ND	1.29	ND	ND	ND	ND	1.29
	R-19 (2.0-4.0)	7/13/2012	07021-017	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	R-19 (4.0-6.0)	7/13/2012	07021-018	4.0-6.0	ND	ND	ND	ND	ND	ND	0
R-20	R-20 (0.0-2.0)	7/13/2012	07021-001	0.0-2.0	ND	47.5	ND	ND	ND	ND	47.5
	R-20 (2.0-4.0)	7/13/2012	07021-002	2.0-4.0	ND	1.5	ND	ND	ND	ND	1.5
	R-20 (4.0-6.0)	7/13/2012	07021-003	4.0-6.0	ND	ND	ND	ND	ND	ND	0
R-21	R-21 (0.0-2.0)	7/12/2012	06968-040	0.0-2.0	ND	37.9	ND	ND	ND	ND	37.9
	R-21 (2.0-4.0)	7/12/2012	06968-041	2.0-4.0	ND	4.33	ND	ND	ND	ND	4.33
	R-21 (4.0-6.0)	7/12/2012	06968-042	4.0-6.0	ND	0.078	ND	ND	ND	ND	0.078
R-22	R-22 (0.0-2.0)	7/12/2012	06968-013	0.0-2.0	ND	14.1	ND	ND	ND	ND	14.1
	R-22 (2.0-4.0)	7/12/2012	06968-014	2.0-4.0	ND	20.3	ND	ND	ND	ND	20.3
	R-22 (4.0-6.0)	7/12/2012	06968-015	4.0-6.0	5.18	ND	ND	ND	ND	ND	5.18
R-23	R-23 (0-2.0)	4/3/2013	02986-011	0.0-2.0	ND	7.86	ND	1.6	ND	ND	9.46
	R-33 (0-2.0)	10/18/2012	10574-011	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	R-33 (2.0-4.0)	10/18/2012	10574-012	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	R-33 (4.0-5.0)	10/18/2012	10574-013	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	R-33 (5.0-6.0)	10/18/2012	10574-014	5.0-6.0	ND	ND	ND	ND	ND	ND	0
R-25	G-17A	11/10/1994	G-17	1.0-1.5	ND	0.73	2.2	3.9	NA	NA	6.83
	G-17B	11/10/1994	G-17	3.0-3.5	ND	ND	ND	0.19	NA	NA	0.19
R-31	G-22A	11/11/1994	G-22	0.25-0.75	ND	1	ND	0.32	NA	NA	1.32
	G-22B	11/11/1994	G-22	2.5-3.0	ND	0.12	ND	ND	NA	NA	0.12
R-34	R-34 (0-2.0)	10/18/2012	10574-020	0.0-2.0	ND	ND	1.56	ND	ND	ND	1.56
	R-34 (2.0-4.0)	10/18/2012	10574-021	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	R-34 (4.0-5.0)	10/18/2012	10574-022	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	R-34 (5.0-6.0)	10/18/2012	10574-023	5.0-6.0	ND	ND	ND	ND	ND	ND	0

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R-35	R-35 (0-2.0)	10/18/2012	10574-015	0.0-2.0	ND	13.3	ND	ND	ND	ND	13.3
	R-35 (2.0-4.0)	10/18/2012	10574-016	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	R-35 (4.0-5.0)	10/18/2012	10574-017	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	R-35 (5.0-5.5)	10/18/2012	10574-018	5.0-5.5	ND	ND	ND	ND	ND	ND	0
	R-35 (5.5-6.0)	10/18/2012	10574-019	5.5-6.0	ND	ND	ND	ND	ND	ND	0
R-36	R-36 (0.0-2.0)	7/25/2012	07487-027	0.0-2.0	ND	ND	ND	9.98	ND	ND	9.98
	R-36 (2.0-3.25)	7/25/2012	07487-028	2.0-3.25	ND	0.222	ND	0.168	ND	ND	0.39
	R-36 (3.25-4.0)	7/25/2012	07487-029	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	R-36 (4.0-6.0)	7/25/2012	07487-030	4.0-6.0	ND	ND	ND	0.068	ND	ND	0.068
R-37	R-37 (0.0-2.0)	7/25/2012	07487-023	0.0-2.0	ND	136	ND	45.8	ND	ND	181.8
	R-37 (2.0-4.0)	7/25/2012	07487-024	2.0-4.0	ND	ND	ND	0.258	ND	ND	0.258
	R-37 (4.0-4.75)	7/25/2012	07487-025	4.0-4.75	ND	ND	ND	0.381	ND	ND	0.381
	R-37 (4.75-6.0)	7/25/2012	07487-026	4.75-6.0	ND	ND	ND	ND	ND	ND	0
R-38	R-38 (0.0-2.0)	7/25/2012	07487-018	0.0-2.0	ND	ND	0.483	0.65	ND	ND	1.133
	R-38 (2.0-3.0)	7/25/2012	07487-019	2.0-3.0	ND	ND	28.9	ND	ND	ND	28.9
	R-38 (3.0-4.0)	7/25/2012	07487-020	3.0-4.0	ND	ND	ND	2340	ND	ND	2340
	R-38 (4.0-4.75)	7/25/2012	07487-021	4.0-4.75	ND	ND	ND	5.88	ND	ND	5.88
	R-38 (4.75-6.0)	7/25/2012	07487-022	4.75-6.0	ND	ND	ND	0.146	ND	ND	0.146
R-38N	R-38N (0-2.0)	4/26/2013	03859-036	0.0-2.0	ND	ND	633	822	ND	ND	1455
	R-38N (2.0-4.0)	4/26/2013	03859-037	2.0-4.0	ND	ND	48.6	63.4	ND	ND	112
R-38W	R-38W (0-2.0)	4/26/2013	03859-038	0.0-2.0	ND	ND	1.42	2.05	ND	ND	3.47
	R-38W (2.0-4.0)	4/26/2013	03859-039	2.0-4.0	ND	ND	377	272	ND	ND	649
R-39	R-39 (0.0-2.0)	7/25/2012	07487-013	0.0-2.0	ND	63.5	ND	15.2	ND	ND	78.7
	R-39 (2.0-3.0)	7/25/2012	07487-014	2.0-3.0	ND	ND	28.8	26.9	ND	ND	55.7
	R-39 (3.0-4.0)	7/25/2012	07487-015	3.0-4.0	ND	ND	ND	589	ND	ND	589
	R-39 (4.5-5.0)	7/25/2012	07487-016	4.5-5.0	ND	ND	1.52	ND	ND	ND	1.52
	R-39 (5.0-6.0)	7/25/2012	07487-017	5.0-6.0	ND	ND	0.357	ND	ND	ND	0.357
R-40	R-40 (0.0-2.0)	7/5/2012	06684-043	0.0-2.0	ND	23.9	ND	26.5	ND	ND	50.4
	R-40 (2.0-3.0)	7/5/2012	06684-044	2.0-3.0	ND	ND	ND	2080	ND	ND	2080
	R-40 (3.0-4.0)	7/5/2012	06684-045	3.0-4.0	ND	ND	ND	ND	116	ND	116
	R-40 (4.0-5.0)	7/5/2012	06684-046	4.0-5.0	ND	ND	ND	516	ND	ND	516
	R-40 (5.0-6.0)	7/5/2012	06684-047	5.0-6.0	ND	ND	ND	ND	1630	ND	1630
	R-40 (5.5-6.0)	8/9/2012	08092-039	5.5-6.0	ND	ND	ND	153	ND	ND	153
	R-40 (6.0-6.5)	8/9/2012	08092-040	6.0-6.5	ND	ND	ND	ND	4.66	ND	4.66
R-40E	R-40E (4.0-6.0)	4/26/2013	03859-015	4.0-6.0	ND	ND	ND	1830	ND	ND	1830
	R-40E (6.0-8.0)	4/26/2013	03859-016	6.0-8.0	ND	ND	ND	0.674	ND	ND	0.674
R-40N	R-40N (4.0-6.0)	4/26/2013	03859-033	4.0-6.0	ND	ND	1870	671	ND	ND	2541
	R-40N (6.0-7.0)	4/26/2013	03859-034	6.0-7.0	ND	ND	8.66	12.2	ND	ND	20.86
	R-40N (7.0-8.0)	4/26/2013	03859-035	7.0-8.0	ND	ND	ND	ND	ND	ND	0
R-40W	R-40W (2.0-4.0)	4/29/2013	03912-003	2.0-4.0	ND	ND	1030	2090	ND	ND	3120
	R-40W (4.0-6.0)	4/29/2013	03912-004	4.0-6.0	ND	ND	1570	1760	ND	ND	3330
	R-40W (6.0-8.0)	4/29/2013	03912-005	6.0-8.0	ND	ND	ND	1.27	ND	ND	1.27
R-41	R-41 (0-2.0)	7/6/2012	06741-004	0.0-2.0	ND	16	ND	5.16	ND	ND	21.16
	R-41 (2.0-4.0)	7/6/2012	06741-005	2.0-4.0	ND	ND	670	374	ND	ND	1044
	R-41 (4.0-5.0)	7/6/2012	06741-006	4.0-5.0	ND	ND	ND	ND	2250	ND	2250
	R-41 (5.0-6.0)	7/6/2012	06741-007	5.0-6.0	ND	ND	2.54	ND	ND	ND	2.54
	G-30B(W)	11/20/1995	W of G-30B	4.5-5.0	ND	ND	ND	710	NA	NA	710
R-41E	R-41E (0-2.0)	4/26/2013	03859-017	0.0-2.0	ND	ND	4900	4080	ND	ND	8980
	R-41E (2.0-4.0)	4/26/2013	03859-018	2.0-4.0	ND	ND	528	657	ND	ND	1185
R-41N	R-41N (0-2.0)	4/26/2013	03859-030	0.0-2.0	ND	ND	387	418	ND	ND	805
	R-41N (6.0-7.0)	4/26/2013	03859-031	6.0-7.0	ND	ND	17.4	18.5	ND	ND	35.9
	R-41N (7.0-8.0)	4/26/2013	03859-032	7.0-8.0	ND	ND	0.034	0.05	ND	ND	0.084
R-42	R-42 (0-2.0)	7/6/2012	06741-001	0.0-2.0	ND	38	ND	24	ND	ND	62
	R-42 (2.0-4.0)	7/6/2012	06741-002	2.0-4.0	ND	ND	2170	1310	ND	ND	3480
	R-42 (4.0-6.0)	7/6/2012	06741-003	4.0-6.0	ND	ND	15.8	ND	ND	ND	15.8
R-42E	R-42E (2.0-4.0)	4/26/2013	03859-019	2.0-4.0	ND	ND	ND	2.93	J	ND	2.93
R-42N	R-42N (0-2.0)	4/26/2013	03859-028	0.0-2.0	ND	ND	28.9	26.1	ND	ND	55
	R-42N (4.0-6.0)	4/26/2013	03859-029	4.0-6.0	ND	ND	911	1100	ND	ND	2011

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
R-43	R-43 (0.0-2.0)	7/16/2012	07070-054	0.0-2.0	ND	24.8	ND	40.7	ND	ND	65.5
	R-43 (2.0-4.0)	7/16/2012	07070-055	2.0-4.0	ND	6.04	ND	2.59	ND	ND	8.63
	R-43 (4.0-5.0)	7/16/2012	07070-056	4.0-5.0	ND	3.93	2.83	ND	ND	ND	6.76
	R-43 (5.0-6.0)	7/16/2012	07070-057	4.0-6.0	ND	15000	18000	ND	ND	ND	33000
	R-43 (6.0-8.0)	7/16/2012	07070-058	6.0-8.0	ND	0.193	0.185	ND	ND	ND	0.378
	VIII-20	11/30/2001	G-30	3.5-4.0'	ND	ND	1100	250	NA	NA	1350
	G-30B(S)	11/20/1995	S of G-30B	4.5-5.0	ND	2.88	2.18	ND	NA	NA	5.06
R-43E	R-43E (0-2.0)	4/26/2013	03859-020	0.0-2.0	ND	11.3	ND	14.6	ND	ND	25.9
	R-43E (4.0-6.0)	4/26/2013	03859-021	4.0-6.0	ND	7.83	ND	ND	ND	ND	7.83
R-43N	R-43N (2.0-4.0)	4/26/2013	03859-026	2.0-4.0	ND	ND	26.3	29.8	ND	ND	56.1
	R-43N (4.0-6.0)	4/26/2013	03859-027	4.0-6.0	ND	ND	19	7.7	ND	ND	26.7
R-43S	R-43S (0-2.0)	4/26/2013	03859-022	0.0-2.0	ND	10.4	ND	11.8	ND	ND	22.2
	R-43S (4.0-6.0)	4/26/2013	03859-023	4.0-6.0	ND	45.2	ND	11.3	ND	ND	56.5
R-44	R-44 (0.0-2.0)	7/16/2012	07070-011	0.0-2.0	ND	7.94	ND	13.2	ND	ND	21.14
	R-44 (2.0-4.0)	7/16/2012	07070-012	2.0-4.0	ND	4.04	ND	1.97	ND	ND	6.01
	R-44 (4.0-6.0)	7/16/2012	07070-013	4.0-6.0	ND	ND	ND	ND	ND	ND	0
R-45	R-45 (0-2.0)	7/6/2012	06741-011	0.0-2.0	ND	5.44	4	3.37	ND	ND	12.81
	R-45 (2.0-4.0)	7/6/2012	06741-012	2.0-4.0	ND	0.242	ND	0.535	ND	ND	0.777
	R-45 (4.0-6.0)	7/6/2012	06741-013	4.0-6.0	ND	2.08	ND	0.727	ND	ND	2.807
R-46	R-46 (0.0-2.0)	7/16/2012	07070-014	0.0-2.0	ND	22.9	ND	16.6	ND	ND	39.5
	R-46 (2.0-4.0)	7/16/2012	07070-015	2.0-4.0	ND	0.707	ND	0.676	ND	ND	1.383
	R-46 (4.0-6.0)	7/16/2012	07070-016	4.0-6.0	ND	ND	ND	ND	ND	ND	0
S-14W	S(14W (2.0-4.0)	4/8/2013	03153-007	2.0-4.0	0.283	ND	ND	ND	ND	ND	0.283
S-7	S-7 (0.0-2.0)	8/6/2012	07954-036	0.0-2.0	ND	6.79	ND	ND	ND	ND	6.79
	S-7 (2.0-4.0)	8/6/2012	07954-037	2.0-4.0	ND	3.62	ND	ND	ND	ND	3.62
	S-7 (4.25-5.0)	8/6/2012	07954-038	4.25-5.0	ND	ND	ND	ND	ND	ND	0
	S-7 (5.0-6.0)	8/6/2012	07954-039	5.0-6.0	ND	ND	ND	ND	ND	ND	0
S-8	S-8 (0-2.0)	7/31/2012	07685-043	0.0-2.0	ND	ND	ND	1.59	ND	ND	1.59
	S-8 (2.0-3.25)	7/31/2012	07685-044	2.0-3.25	ND	ND	ND	ND	ND	ND	0
	S-8 (3.25-4.0)	7/31/2012	07685-045	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	S-8 (4.0-6.0)	7/31/2012	07685-046	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	III-13	11/29/2002	G-2	0.0-0.5'	ND	0.072	ND	ND	NA	NA	0.072
S-9	S-9 (0-2.0)	7/31/2012	07685-017	0.0-2.0	ND	4.59	ND	ND	ND	ND	4.59
	S-9 (2.0-4.0)	7/31/2012	07685-018	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-9 (4.0-4.75)	7/31/2012	07685-019	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	S-9 (4.75-6.0)	7/31/2012	07685-020	4.75-6.0	ND	ND	ND	ND	ND	ND	0
S-10	S-10 (0-2.0)	7/31/2012	07685-005	0.0-2.0	ND	6.83	ND	ND	ND	ND	6.83
	S-10 (2.0-4.0)	7/31/2012	07685-006	2.0-4.0	ND	4.33	ND	ND	ND	ND	4.33
	S-10 (4.0-6.0)	7/31/2012	07685-007	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	S-10 (6.0-8.0)	7/31/2012	07685-008	6.0-8.0	ND	ND	ND	ND	ND	ND	0
S-11	S-11 (0.0-2.0)	7/20/2012	07337-052	0.0-2.0	ND	9.03	ND	ND	ND	ND	9.03
	S-11 (2.0-4.0)	7/20/2012	07337-053	2.0-4.0	ND	3.11	ND	ND	ND	ND	3.11
	S-11 (4.0-6.0)	7/20/2012	07337-054	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	S-11 (6.0-8.0)	7/20/2012	07337-055	6.0-8.0	ND	ND	ND	ND	ND	ND	0
	G-2A	11/9/1994	G-2	0.5-1.0	200	ND	ND	ND	NA	NA	200
	G-2B	11/9/1994	G-2	3.0-3.5	19	ND	ND	ND	NA	NA	19
S-12	S-12 (0.0-2.0)	7/20/2012	07337-042	0.0-2.0	ND	121	ND	ND	ND	ND	121
	S-12 (2.0-4.0)	7/20/2012	07337-043	2.0-4.0	ND	88.6	ND	ND	ND	ND	88.6
	S-12 (4.0-5.0)	7/20/2012	07337-044	4.0-5.0	ND	0.542	ND	ND	ND	ND	0.542
	S-12 (5.0-6.0)	7/20/2012	07337-045	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	S-12 (6.0-8.0)	7/20/2012	07337-046	6.0-8.0	ND	0.054	ND	ND	ND	ND	0.054
S-12E	S-12E (0-2.0)	4/8/2013	03153-014	0.0-2.0	ND	54.9	ND	ND	ND	ND	54.9
	S-12E (2.0-4.0)	4/8/2013	03153-015	2.0-4.0	1.43	ND	ND	ND	ND	ND	1.43
S-12N	S-12N (0-2.0)	4/8/2013	03153-016	0.0-2.0	ND	59.8	ND	ND	ND	ND	59.8
	S-12N (2.0-4.0)	4/8/2013	03153-017	2.0-4.0	ND	2.91	ND	ND	ND	ND	2.91

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S-13	S-13 (0.0-2.0)	7/20/2012	07337-017	0.0-2.0	ND	123	ND	ND	ND	ND	123
	S-13 (2.0-4.0)	7/20/2012	07337-018	2.0-4.0	ND	370	ND	ND	ND	ND	370
	S-13 (4.0-6.0)	7/20/2012	07337-019	4.0-6.0	ND	50.8	ND	ND	ND	ND	50.8
	S-13 (6.0-7.0)	7/20/2012	07337-020	6.0-7.0	ND	6.73	ND	ND	ND	ND	6.73
	S-13 (7.0-8.0)	7/20/2012	07337-021	7.0-8.0	ND	11.9	ND	ND	ND	ND	11.9
	S-13 (8.0-10.0)	7/20/2012	07337-022	8.0-10.0	ND	1.42	ND	ND	ND	ND	1.42
S-13E	S-13E (0-2.0)	4/8/2013	03153-010	0.0-2.0	ND	164	ND	ND	ND	ND	164
	S-13E (2.0-4.0)	4/8/2013	03153-011	2.0-4.0	ND	13.1	ND	ND	ND	ND	13.1
	S-13E (4.0-6.0)	4/8/2013	03153-012	4.0-6.0	ND	3.42	ND	ND	ND	ND	3.42
S-13N	S-13N (4.0-6.0)	4/8/2013	03153-013	4.0-6.0	1.66	ND	ND	ND	ND	ND	1.66
S-13S	S-13S (4.0-6.0)	4/8/2013	03153-008	4.0-6.0	ND	262	ND	ND	ND	ND	262
S-14	S-14 (0.0-2.0)	7/19/2012	07241-025	0.0-2.0	ND	126	ND	ND	ND	ND	126
	S-14 (2.0-4.0)	7/19/2012	07241-026	2.0-4.0	ND	170	ND	ND	ND	ND	170
	S-14 (4.0-6.0)	7/19/2012	07241-027	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	S-14 (6.0-8.0)	7/19/2012	07241-028	6.0-8.0	ND	ND	ND	ND	ND	ND	0
	S-14 (8.0-10.0)	7/19/2012	07241-029	8.0-10.0	ND	0.139	ND	ND	ND	ND	0.139
S-14S	S-14S (2.0-4.0)	4/8/2013	03153-003	2.0-4.0	ND	ND	ND	ND	ND	ND	0
S-14W	S-14W (0-2.0)	4/8/2013	03153-006	0.0-2.0	1680	ND	ND	ND	ND	ND	1680
S-15	S-15 (0.0-2.0)	7/18/2012	07162-005	0.0-2.0	ND	91.6	ND	ND	ND	ND	91.6
	S-15 (2.0-3.0)	7/18/2012	07162-006	2.0-3.0	ND	0.94	ND	ND	ND	ND	0.94
	S-15 (3.0-4.0)	7/18/2012	07162-007	3.0-4.0	ND	0.655	ND	ND	ND	ND	0.655
	S-15 (4.0-6.0)	7/18/2012	07162-008	4.0-6.0	ND	ND	ND	ND	ND	ND	0
S-15E	S-15E (0-2.0)	4/8/2013	03153-004	0.0-2.0	ND	59.4	ND	ND	ND	ND	59.4
S-15S	S-15S (0-2.0)	4/8/2013	03153-001	0.0-2.0	1.19	ND	ND	ND	ND	ND	1.19
S-15W	S-15W (0-2.0)	4/8/2013	03153-002	0.0-2.0	0.659	ND	ND	ND	ND	ND	0.659
S-16	S-16 (0.0-2.0)	7/18/2012	07162-001	0.0-2.0	ND	3.65	ND	ND	ND	ND	3.65
	S-16 (2.0-4.0)	7/18/2012	07162-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-16 (4.0-4.5)	7/18/2012	07162-003	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	S-16 (4.5-6.0)	7/18/2012	07162-004	4.5-6.0	ND	ND	ND	ND	ND	ND	0
S-17	S-17 (0-2.0)	9/12/2012	09240-023	0.0-2.0	ND	332	ND	ND	ND	ND	332
	S-17 (2.0-4.0)	9/12/2012	09240-024	2.0-4.0	ND	280	ND	ND	ND	ND	280
	S-17 (4.0-5.0)	9/12/2012	09240-025	4.0-5.0	ND	0.153	ND	ND	ND	ND	0.153
	S-17 (5.0-5.5)	9/12/2012	09240-026	5.0-5.5	ND	0.271	ND	ND	ND	ND	0.271
	S-17 (5.5-6.0)	9/12/2012	09240-027	5.5-6.0	ND	ND	ND	ND	ND	ND	0
S-17N	S-17N (0-2.0)	4/5/2013	03119-027	0.0-2.0	ND	2.99	ND	ND	ND	ND	2.99
	S-17N (2.0-4.0)	4/5/2013	03119-028	2.0-4.0	1.06	ND	ND	ND	ND	ND	1.06
S-17S	S-17S (0-2.0)	4/5/2013	03119-025	0.0-2.0	ND	0.068	ND	ND	ND	ND	0.068
	S-17S (2.0-4.0)	4/5/2013	03119-026	2.0-4.0	ND	ND	ND	ND	ND	ND	0
S-18	S-18 (0-2.0)	9/12/2012	09240-018	0.0-2.0	ND	30.1	ND	ND	ND	ND	30.1
	S-18 (2.0-4.0)	9/12/2012	09240-019	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-18 (4.0-4.25)	9/12/2012	09240-020	4.0-4.25	ND	ND	ND	ND	ND	ND	0
	S-18 (4.25-5.0)	9/12/2012	09240-021	4.25-5.0	ND	0.03	J	ND	ND	ND	0.03
	S-18 (5.0-6.0)	9/12/2012	09240-022	5.0-6.0	ND	0.034	J	ND	ND	ND	0.034
S-18S	S-18S (0-2.0)	8/21/2013	08149-008	0.0-2.0	ND	53.9	ND	ND	ND	ND	53.9
S-19	S-19 (0.0-2.0)	7/13/2012	07021-013	0.0-2.0	ND	37.6	ND	ND	ND	ND	37.6
	S-19 (2.0-4.0)	7/13/2012	07021-014	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-19 (4.0-6.0)	7/13/2012	07021-015	4.0-6.0	ND	ND	ND	ND	ND	ND	0
S-20	S-20 (0.0-2.0)	7/13/2012	07021-004	0.0-2.0	ND	0.945	ND	ND	ND	ND	0.945
	S-20 (2.0-4.0)	7/13/2012	07021-005	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-20 (4.0-6.0)	7/13/2012	07021-006	4.0-6.0	ND	ND	ND	ND	ND	ND	0
S-21	S-21 (0.0-2.0)	7/12/2012	06968-037	0.0-2.0	ND	13.4	ND	ND	ND	ND	13.4
	S-21 (2.0-4.0)	7/12/2012	06968-038	2.0-4.0	ND	0.354	ND	ND	ND	ND	0.354
	S-21 (4.0-6.0)	7/12/2012	06968-039	4.0-6.0	ND	ND	ND	ND	ND	ND	0
S-21E	S-21E (0-2.0)	8/21/2013	08149-007	0.0-2.0	ND	3.37	ND	ND	ND	ND	3.37

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S-22	S-22 (0.0-2.0)	7/12/2012	06968-016	0.0-2.0	ND	50.2	ND	ND	ND	ND	50.2
	S-22 (2.0-4.0)	7/12/2012	06968-017	2.0-4.0	30.5	ND	ND	ND	ND	ND	30.5
	S-22 (4.0-6.0)	7/12/2012	06968-018	4.0-6.0	ND	0.567	ND	ND	ND	ND	0.567
S-22E	S-22E (0-2.0)	4/22/2013	03661-003	0.0-2.0	347	ND	ND	ND	ND	ND	347
S-22N	S-22N (0-2.0)	4/19/2013	03615-030	0.0-2.0	220	ND	ND	ND	ND	ND	220
S-22S	S-22S (0-2.0)	4/22/2013	03661-002	0.0-2.0	ND	16.2	ND	ND	ND	ND	16.2
S-22W	S-22W (0-2.0)	4/22/2013	03661-001	0.0-2.0	ND	10.2	ND	ND	ND	ND	10.2
S-23	S-23 (0.0-2.0)	7/12/2012	06968-010	0.0-2.0	ND	12	ND	ND	ND	ND	12
	S-23 (2.0-4.0)	7/12/2012	06968-011	2.0-4.0	ND	7.96	ND	ND	ND	ND	7.96
	S-23 (4.0-6.0)	7/12/2012	06968-012	4.0-6.0	ND	3.05	ND	ND	ND	ND	3.05
S-28	S-28 (0.0-2.0)	8/1/2012	07780-001	0.0-2.0	ND	0.69	ND	0.316	ND	ND	1.006
	S-28 (2.0-4.0)	8/1/2012	07780-002	2.0-4.0	3.97	ND	ND	ND	ND	ND	3.97
	S-28 (4.25-6.0)	8/1/2012	07780-003	4.25-6.0	ND	0.185	ND	ND	ND	ND	0.185
S-29	S-29 (0.0-2.0)	8/1/2012	07780-004	0.0-2.0	ND	ND	1.28	ND	ND	ND	1.28
	S-29 (2.0-3.0)	8/1/2012	07780-005	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	S-29 (3.0-4.0)	8/1/2012	07780-006	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-29 (4.0-6.0)	8/1/2012	07780-007	4.0-6.0	ND	ND	ND	ND	ND	ND	0
S-30	S-30 (0.0-2.0)	8/7/2012	07988-009	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	S-30 (2.0-3.0)	8/7/2012	07988-010	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	S-30 (3.0-4.0)	8/7/2012	07988-011	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-30 (4.0-6.0)	8/7/2012	07988-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
S-33	S-33 (0-2.0)	10/18/2012	10574-006	0.0-2.0	ND	ND	ND	0.523	ND	ND	0.523
	S-33 (2.0-4.0)	10/18/2012	10574-007	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-33 (4.0-5.0)	10/18/2012	10574-008	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	S-33 (5.0-5.5)	10/18/2012	10574-009	5.0-5.5	ND	ND	ND	ND	ND	ND	0
	S-33 (5.5-6.0)	10/18/2012	10574-010	5.5-6.0	ND	ND	ND	ND	ND	ND	0
S-34	S-34 (0-2.0)	10/18/2012	10574-001	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	S-34 (2.0-4.0)	10/18/2012	10574-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-34 (4.0-5.0)	10/18/2012	10574-003	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	S-34 (5.0-5.5)	10/18/2012	10574-004	5.0-5.5	ND	ND	ND	ND	ND	ND	0
	S-34 (5.5-6.0)	10/18/2012	10574-005	5.5-6.0	ND	ND	ND	ND	ND	ND	0
S-35	S-35 (0-2.0)	10/17/2012	10545-054	0.0-2.0	ND	0.829	ND	0.482	ND	ND	1.311
	S-35 (2.0-4.0)	10/17/2012	10545-055	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-35 (4.0-5.0)	10/17/2012	10545-056	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	S-35 (5.0-6.0)	10/17/2012	10545-057	5.0-6.0	ND	ND	ND	ND	ND	ND	0
S-36	S-36 (0.0-2.0)	7/24/2012	07431-058	0.0-2.0	ND	ND	22.9	10.3	ND	ND	33.2
	S-36 (2.0-4.0)	7/24/2012	07431-059	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	S-36 (4.0-5.0)	7/24/2012	07431-060	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	S-36 (5.0-6.0)	7/24/2012	07431-061	5.0-6.0	ND	ND	ND	ND	ND	ND	0
S-37	S-37 (0.0-2.0)	7/24/2012	07431-062	0.0-2.0	ND	ND	ND	ND	204	ND	204
	S-37 (2.0-4.0)	7/24/2012	07431-063	2.0-4.0	ND	0.137	0.063	ND	ND	ND	0.2
	S-37 (4.0-5.0)	7/24/2012	07431-064	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	S-37 (5.0-6.0)	7/24/2012	07431-065	5.0-6.0	ND	ND	ND	ND	ND	ND	0
S-37S	S-37S (0-2.0)	4/26/2013	03859-004	0.0-2.0	ND	36.8	ND	26.4	ND	ND	63.2
	S-37S (2.0-4.0)	4/26/2013	03859-005	2.0-4.0	ND	ND	43.3	65.6	ND	ND	108.9
	S-37S (4.0-6.0)	4/26/2013	03859-006	4.0-6.0	ND	ND	ND	0.846	ND	ND	0.846
	S-37S (6.0-8.0)	4/26/2013	03859-007	6.0-8.0	ND	ND	ND	0.107	ND	ND	0.107
S-38	S-38 (0.0-2.0)	7/25/2012	07487-001	0.0-2.0	ND	16.4	ND	12.9	ND	ND	29.3
	S-38 (2.0-3.0)	7/25/2012	07487-002	2.0-3.0	ND	ND	ND	424	ND	ND	424
	S-38 (3.0-4.0)	7/25/2012	07487-003	3.0-4.0	ND	ND	ND	1560	ND	ND	1560
	S-38 (4.0-5.5)	7/25/2012	07487-004	4.0-5.5	ND	ND	ND	115	ND	ND	115
	S-38 (6.0-6.75)	7/25/2012	07487-005	6.0-6.75	ND	ND	37.9	93.1	ND	ND	131
	S-38 (6.75-8.0)	7/25/2012	07487-006	6.75-8.0	ND	ND	ND	0.541	ND	ND	0.541
S-38E	S-38E (6.0-7.0)	8/21/2013	08149-012	6.0-7.0	ND	ND	ND	ND	ND	ND	0
	S-38E (7.0-8.0)	8/21/2013	08149-013	7.0-8.0	ND	ND	ND	ND	ND	ND	0
S-38S	S-38S (4.0-6.0)	8/22/2013	08218-004	4.0-6.0	ND	ND	ND	1.4	ND	ND	1.4
	S-38S (6.0-8.0)	8/22/2013	08218-005	6.0-8.0	ND	ND	ND	0.122	ND	ND	0.122
S-38W	S-38W (6.0-8.0)	8/22/2013	08218-003	6.0-8.0	ND	ND	ND	ND	ND	ND	0

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
S-39	S-39 (0.0-1.75)	7/25/2012	07487-007	0.0-1.75	ND	28	ND	19.7	ND	ND	47.7
	S-39 (1.75-2.0)	7/25/2012	07487-008	1.75-2.0	ND	ND	ND	371	ND	ND	371
	S-39 (2.0-2.75)	7/25/2012	07487-009	2.0-2.75	ND	ND	349	310	ND	ND	659
	S-39 (2.75-3.5)	7/25/2012	07487-010	2.75-3.5	ND	ND	ND	991	ND	ND	991
	S-39 (4.0-5.0)	7/25/2012	07487-011	4.0-5.0	ND	ND	ND	0.692	ND	ND	0.692
	S-39 (5.0-6.0)	7/25/2012	07487-012	5.0-6.0	ND	ND	ND	0.293	ND	ND	0.293
	VIII-22	11/30/2001	G-29	3.0-3.5'	ND	ND	ND	12	NA	NA	12
S-40	S-40 (0-2.0)	6/29/2012	06506-050	0.0-2.0	ND	50.5	ND	57.9	ND	ND	108.4
	S-40 (2.0-4.0)	6/29/2012	06506-051	2.0-4.0	ND	ND	ND	920	ND	ND	920
	S-40 (4.0-4.5)	6/29/2012	06506-052	4.0-4.5	ND	ND	ND	355	ND	ND	355
	S-40 (4.5-6.0)	6/29/2012	06506-053	4.5-6.0	ND	ND	ND	111	ND	ND	111
	S-40 (5.5-6.0)	8/9/2012	08092-037	5.5-6.0	ND	ND	ND	21.2	ND	ND	21.2
	S-40 (6.5-7.0)	8/9/2012	08092-038	6.5-7.0	ND	ND	ND	0.632	ND	ND	0.632
S-40S	S-40S (0-2.0)	4/26/2013	03859-008	0.0-2.0	ND	ND	ND	323	ND	ND	323
	S-40S (2.0-4.0)	4/26/2013	03859-009	2.0-4.0	ND	ND	ND	2840	ND	ND	2840
	S-40S (4.0-6.0)	4/26/2013	03859-010	4.0-6.0	ND	ND	ND	3090	ND	ND	3090
S-41	S-41 (0-2.0)	6/29/2012	06506-047	0.0-2.0	ND	ND	ND	530	ND	ND	530
	S-41 (2.0-4.0)	6/29/2012	06506-048	2.0-4.0	ND	ND	ND	363	ND	ND	363
	S-41 (4.0-6.0)	6/29/2012	06506-049	4.0-6.0	ND	ND	ND	648	ND	ND	648
	S-41 (5.5-6.0)	8/9/2012	08092-034	5.5-6.0	ND	ND	ND	ND	0.416	ND	0.416
	S-41 (6.0-6.5)	8/9/2012	08092-035	6.0-6.5	ND	ND	ND	ND	0.049	J ND	0.049
S-41S	S-41S (0-2.0)	4/26/2013	03859-011	0.0-2.0	ND	ND	ND	760	ND	ND	760
	S-41S (4.0-6.0)	4/26/2013	03859-012	4.0-6.0	ND	ND	ND	2410	ND	ND	2410
S-42	S-42 (0-2.0)	6/29/2012	06506-044	0.0-2.0	ND	ND	ND	110	ND	ND	110
	S-42 (2.0-4.0)	6/29/2012	06506-045	2.0-4.0	ND	177	ND	164	ND	ND	341
	S-42 (4.0-6.0)	6/29/2012	06506-046	4.0-6.0	ND	ND	ND	32.7	ND	ND	32.7
	G-30B	11/15/1994	G-30	4.5-5.0	ND	ND	6200	ND	NA	NA	6200
	F-1	3/13/1995	G-30	0-0.5	ND	ND	ND	1300	NA	NA	1300
	G-30A	11/15/1994	G-30	0.5-1.0	ND	3.1	ND	0.64	NA	NA	3.74
S-42S	S-42S (0-2.0)	4/26/2013	03859-013	0.0-2.0	ND	25.5	ND	14.2	ND	ND	39.7
	S-42S (2.0-4.0)	4/26/2013	03859-014	2.0-4.0	ND	7.3	ND	4.69	ND	ND	11.99
S-43	S-43 (0.0-2.0)	7/16/2012	07070-006	0.0-2.0	ND	7.75	ND	15.6	ND	ND	23.35
	S-43 (2.0-4.0)	7/16/2012	07070-007	2.0-4.0	ND	22.3	ND	ND	ND	ND	22.3
	S-43 (4.0-6.0)	7/16/2012	07070-008	4.0-6.0	ND	27.2	ND	ND	ND	ND	27.2
	S-43 (6.0-8.0)	7/16/2012	07070-009	6.0-8.0	ND	24.7	ND	ND	ND	ND	24.7
	S-43 (8.0-10.0)	7/16/2012	07070-010	8.0-10.0	ND	1.32	ND	0.797	ND	ND	2.117
S-44	S-44 (0-2.0)	6/29/2012	06506-041	0.0-2.0	ND	28.8	ND	6.63	ND	ND	35.43
	S-44 (2.0-4.0)	6/29/2012	06506-042	2.0-4.0	ND	3.1	ND	1.72	ND	ND	4.82
	S-44 (4.0-6.0)	6/29/2012	06506-043	4.0-6.0	ND	27.2	ND	10.6	ND	ND	37.8
S-45	S-45 (0-2.0)	7/6/2012	06741-008	0.0-2.0	ND	24.7	ND	ND	ND	ND	24.7
	S-45 (2.0-4.0)	7/6/2012	06741-009	2.0-4.0	ND	0.399	ND	ND	ND	ND	0.399
	S-45 (4.0-6.0)	7/6/2012	06741-010	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-7	T-7 (0.0-2.0)	8/6/2012	07954-032	0.0-2.0	ND	4.74	ND	ND	ND	ND	4.74
	T-7 (2.0-4.0)	8/6/2012	07954-033	2.0-4.0	ND	0.072	ND	ND	ND	ND	0.072
	T-7 (4.0-4.25)	8/6/2012	07954-034	4.0-4.25	ND	ND	ND	ND	ND	ND	0
	T-7 (4.25-6.0)	8/6/2012	07954-035	4.25-6.0	ND	ND	ND	ND	ND	ND	0
T-8	T-8 (0.0-2.0)	8/6/2012	07954-029	0.0-2.0	ND	3.36	ND	ND	ND	ND	3.36
	T-8 (2.0-4.0)	8/6/2012	07954-030	2.0-4.0	ND	3.9	ND	ND	ND	ND	3.9
	T-8 (4.5-6.0)	8/6/2012	07954-031	4.5-6.0	ND	ND	ND	ND	ND	ND	0
	PP-10	3/3/1993	N of G-2	0-0.5	ND	350	60	ND	NA	NA	410
T-8E	T-8E (0-2.0)	4/9/2013	03191-006	0.0-2.0	ND	23.7	ND	ND	ND	ND	23.7
T-8N	T-8N (0-2.0)	4/9/2013	03191-003	0.0-2.0	ND	2.02	ND	ND	ND	ND	2.02
T-8S	T-8S (0-2.0)	4/9/2013	03191-005	0.0-2.0	ND	31.9	ND	ND	ND	ND	31.9
T-8W	T-8W (0-2.0)	4/9/2013	03191-004	0.0-2.0	ND	36.5	ND	ND	ND	ND	36.5
T-9	T-9 (0-2.0)	7/31/2012	07685-013	0.0-2.0	ND	3.52	ND	ND	ND	ND	3.52
	T-9 (2.0-4.0)	7/31/2012	07685-014	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-9 (4.0-5.0)	7/31/2012	07685-015	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	T-9 (5.0-6.0)	7/31/2012	07685-016	5.0-6.0	ND	ND	ND	ND	ND	ND	0

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T-10	T-10 (0-2.0)	7/31/2012	07685-009	0.0-2.0	ND	10.3	ND	ND	ND	ND	10.3
	T-10 (2.0-4.0)	7/31/2012	07685-010	2.0-4.0	ND	35.2	ND	ND	ND	ND	35.2
	T-10 (4.0-5.5)	7/31/2012	07685-011	4.0-5.5	ND	2.46	ND	ND	ND	ND	2.46
	T-10 (6.0-8.0)	7/31/2012	07685-012	6.0-8.0	ND	ND	ND	ND	ND	ND	0
T-11	T-11 (0.0-2.0)	7/30/2012	07662-010	0.0-2.0	ND	8.1	ND	ND	ND	ND	8.1
	T-11 (2.0-4.0)	7/30/2012	07662-011	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-11 (4.0-4.75)	7/30/2012	07662-012	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	T-11 (4.75-6.0)	7/30/2012	07662-013	4.75-6.0	ND	ND	ND	ND	ND	ND	0
T-12	T-12 (0.0-2.0)	7/20/2012	07337-037	0.0-2.0	ND	4.28	ND	ND	ND	ND	4.28
	T-12 (2.0-4.0)	7/20/2012	07337-038	2.0-4.0	ND	0.082	ND	ND	ND	ND	0.082
	T-12 (4.0-4.5)	7/20/2012	07337-039	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	T-12 (4.5-5.0)	7/20/2012	07337-040	4.5-5.0	ND	ND	ND	ND	ND	ND	0
	T-12 (5.0-6.0)	7/20/2012	07337-041	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-13	T-13 (0.0-2.0)	7/20/2012	07337-023	0.0-2.0	ND	17.6	ND	ND	ND	ND	17.6
	T-13 (2.0-4.0)	7/20/2012	07337-024	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-13 (4.0-5.0)	7/20/2012	07337-025	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	T-13 (5.0-6.0)	7/20/2012	07337-026	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	T-13 (6.0-8.0)	7/20/2012	07337-027	6.0-8.0	ND	ND	ND	ND	ND	ND	0
T-14	T-14 (0.0-2.0)	7/19/2012	07241-030	0.0-2.0	ND	373	ND	ND	ND	ND	373
	T-14 (2.0-4.0)	7/19/2012	07241-031	2.0-4.0	ND	0.512	ND	ND	ND	ND	0.512
	T-14 (4.0-6.0)	7/19/2012	07241-032	4.0-6.0	ND	0.2	ND	ND	ND	ND	0.2
	T-14 (6.0-8.0)	7/19/2012	07241-033	6.0-8.0	ND	0.122	ND	ND	ND	ND	0.122
T-14N	T-14N (0-2.0)	4/5/2013	03119-016	0.0-2.0	ND	777	ND	ND	ND	ND	777
	T-14N (2.0-4.0)	8/15/2013	07948-008	2.0-4.0	ND	28	ND	ND	ND	ND	28
	T-14N (4.0-6.0)	8/15/2013	07948-009	4.0-6.0	ND	111	ND	ND	ND	ND	111
T-14S	T-14S (0-2.0)	4/5/2013	03119-017	0.0-2.0	ND	171	ND	ND	ND	ND	171
T-14W	T-14W (2.0-4.0)	4/8/2013	03153-005	2.0-4.0	2730	ND	ND	ND	ND	ND	2730
T-15	T-15 (0.0-2.0)	7/19/2012	07241-021	0.0-2.0	ND	1.88	ND	ND	ND	ND	1.88
	T-15 (2.0-3.0)	7/19/2012	07241-022	2.0-3.0	ND	0.351	ND	ND	ND	ND	0.351
	T-15 (3.0-4.0)	7/19/2012	07241-023	3.0-4.0	ND	0.047	ND	ND	ND	ND	0.047
	T-15 (4.0-6.0)	7/19/2012	07241-024	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-16	T-16 (0.0-2.0)	7/19/2012	07241-001	0.0-2.0	ND	25.1	ND	ND	ND	ND	25.1
	T-16 (2.0-3.25)	7/19/2012	07241-002	2.0-3.25	ND	ND	ND	ND	ND	ND	0
	T-16 (3.25-4.0)	7/19/2012	07241-003	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	T-16 (4.0-6.0)	7/19/2012	07241-004	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-17	T-17 (0-2.0)	10/19/2012	10655-039	0.0-2.0	ND	113	ND	ND	ND	ND	113
	T-17 (2.0-4.0)	10/19/2012	10655-040	2.0-4.0	ND	894	ND	ND	ND	ND	894
	T-17 (4.0-5.0)	10/19/2012	10655-041	4.0-5.0	ND	2.11	ND	ND	ND	ND	2.11
	T-17 (5.0-6.0)	10/19/2012	10655-042	5.0-6.0	ND	0.361	ND	ND	ND	ND	0.361
T-17E	T-17E (0-2.0)	4/5/2013	03119-020	0.0-2.0	ND	4.55	ND	ND	ND	ND	4.55
	T-17E (2.0-4.0)	4/5/2013	03119-021	2.0-4.0	ND	3.82	ND	ND	ND	ND	3.82
T-17N	T-17N (0-2.0)	4/5/2013	03119-018	0.0-2.0	ND	16.1	ND	ND	ND	ND	16.1
	T-17N (2.0-4.0)	4/5/2013	03119-019	2.0-4.0	ND	1.37	ND	ND	ND	ND	1.37
T-17S	T-17S (0-2.0)	4/5/2013	03119-022	0.0-2.0	ND	161	ND	ND	ND	ND	161
	T-17S (2.0-4.0)	4/5/2013	03119-023	2.0-4.0	ND	1.36	ND	ND	ND	ND	1.36
T-17W	T-17W (2.0-4.0)	4/5/2013	03119-024	0.0-2.0	ND	1.25	ND	ND	ND	ND	1.25
T-18	T-18 (0-2.0)	10/19/2012	10655-043	0.0-2.0	ND	0.217	ND	ND	ND	ND	0.217
	T-18 (2.0-4.0)	10/19/2012	10655-044	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-18 (4.0-5.0)	10/19/2012	10655-045	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	T-18 (5.0-6.0)	10/19/2012	10655-046	5.0-6.0	ND	ND	ND	ND	ND	ND	0
T-20	T-20 (0.0-2.0)	7/13/2012	07021-007	0.0-2.0	ND	10.3	ND	ND	ND	ND	10.3
	T-20 (2.0-4.0)	7/13/2012	07021-008	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-20 (4.0-6.0)	7/13/2012	07021-009	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-21	T-21 (0.0-2.0)	7/12/2012	06968-034	0.0-2.0	ND	17.1	ND	ND	ND	ND	17.1
	T-21 (2.0-4.0)	7/12/2012	06968-035	2.0-4.0	ND	11.8	ND	ND	ND	ND	11.8
	T-21 (4.0-6.0)	7/12/2012	06968-036	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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T-22	T-22 (0.0-2.0)	7/12/2012	06968-019	0.0-2.0	ND	0.331	ND	ND	ND	ND	0.331
	T-22 (2.0-4.0)	7/12/2012	06968-020	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-22 (4.0-6.0)	7/12/2012	06968-021	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-23	T-23 (0.0-2.0)	7/12/2012	06968-007	0.0-2.0	ND	14	ND	ND	ND	ND	14
	T-23 (2.0-4.0)	7/12/2012	06968-008	2.0-4.0	44.4	ND	ND	ND	ND	ND	44.4
	T-23 (4.0-6.0)	7/12/2012	06968-009	4.0-6.0	ND	0.169	ND	ND	ND	ND	0.169
T-26	T-26 (0-2.0)	4/3/2013	02986-015	0.0-2.0	ND	2.56	ND	1.51	ND	ND	4.07
T-27	T-27 (0.0-2.0)	7/13/2012	07021-022	0.0-2.0	ND	0.052	ND	0.049	ND	ND	0.101
	T-27 (2.0-4.0)	7/13/2012	07021-023	2.0-4.0	ND	0.433	ND	0.339	ND	ND	0.772
	T-27 (4.0-6.0)	7/13/2012	07021-024	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-28	T-28 (0.0-2.0)	7/13/2012	07021-025	0.0-2.0	ND	4.2	ND	2.25	ND	ND	6.45
	T-28 (2.0-4.0)	7/13/2012	07021-026	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-28 (4.0-6.0)	7/13/2012	07021-027	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-29	T-29 (0.0-2.0)	8/1/2012	07780-008	0.0-2.0	ND	ND	1.16	1.77	ND	ND	2.93
	T-29 (2.0-4.0)	8/1/2012	07780-009	2.0-4.0	ND	ND	2.79	4.49	ND	ND	7.28
	T-29 (4.0-6.0)	8/1/2012	07780-010	4.0-6.0	ND	ND	ND	20.2	ND	ND	20.2
	T-29 (6.0-8.0)	8/1/2012	07780-011	6.0-8.0	ND	ND	ND	ND	ND	ND	0
T-30	T-30 (0.0-2.0)	7/13/2012	07021-034	0.0-2.0	ND	ND	ND	86.1	ND	ND	86.1
	T-30 (2.0-4.0)	7/13/2012	07021-035	2.0-4.0	ND	ND	ND	3.09	ND	ND	3.09
	T-30 (4.0-6.0)	7/13/2012	07021-036	4.0-6.0	ND	ND	ND	ND	ND	ND	0
T-30S	T-30S (0-2.0)	8/16/2013	08025-005	0.0-2.0	ND	ND	ND	14.3	ND	ND	14.3
T-30W	T-30W (0-2.0)	8/16/2013	08025-006	0.0-2.0	ND	4.41	ND	2.99	ND	ND	7.4
T-31	T-31 (0.0-2.0)	8/7/2012	07988-013	0.0-2.0	ND	ND	ND	29	ND	ND	29
	T-31 (2.0-3.0)	8/7/2012	07988-014	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	T-31 (3.0-4.0)	8/7/2012	07988-015	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-31 (4.5-6.0)	8/7/2012	07988-016	4.5-6.0	ND	ND	ND	ND	ND	ND	0
T-33	T-33 (0-2.0)	10/18/2012	10574-028	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	T-33 (2.0-4.0)	10/18/2012	10574-029	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-33 (4.0-5.0)	10/18/2012	10574-030	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	T-33 (5.0-5.5)	10/18/2012	10574-031	5.0-5.5	ND	ND	ND	ND	ND	ND	0
	T-33 (5.5-6.0)	10/18/2012	10574-032	5.5-6.0	ND	ND	ND	ND	ND	ND	0
T-34	T-34 (0-2.0)	10/18/2012	10574-024	0.0-2.0	ND	ND	0.934	ND	ND	ND	0.934
	T-34 (2.0-4.0)	10/18/2012	10574-025	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-34 (4.0-5.0)	10/18/2012	10574-026	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	T-34 (5.0-6.0)	10/18/2012	10574-027	5.0-6.0	ND	ND	ND	ND	ND	ND	0
T-35	T-35 (0-1.0)	9/13/2012	09301-035	0.0-1.0	ND	ND	9560	ND	ND	ND	9560
	T-35 (1.0-2.0)	9/13/2012	09301-036	1.0-2.0	ND	ND	29.3	20	ND	ND	49.3
	T-35 (2.0-4.0)	9/13/2012	09301-037	2.0-4.0	ND	ND	ND	ND	0.267	ND	0.267
	T-35 (4.0-5.0)	9/13/2012	09301-038	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	T-35 (5.0-6.0)	9/13/2012	09301-039	5.0-6.0	ND	ND	0.474	ND	ND	ND	0.474
	G-21A	11/11/1994	G-21	0.0-0.5	ND	48	ND	19	NA	NA	67
	G-21B	11/11/1994	G-21	1.5-2.0	ND	1.4	3.6	2.3	NA	NA	7.3
	G-21N	6/8/1995	G-21 Native	6.0-6.5	ND	ND	0.035	0.055	NA	NA	0.09
T-35E	T-35E (0-2.0)	4/12/2013	03329-017	0.0-2.0	ND	ND	88.4	23.1	ND	ND	111.5
T-35N	T-35N (0-2.0)	4/24/2013	03750-002	0.0-2.0	ND	ND	ND	4.41	ND	ND	4.41
T-35S	T-35S (0-2.0)	4/12/2013	03329-018	0.0-2.0	ND	ND	22.5	16.9	ND	ND	39.4
T-35W	T-35W (0-2.0)	4/12/2013	03329-019	0.0-2.0	ND	ND	ND	ND	11.7	4.12	15.82
T-36	T-36 (0.0-2.0)	7/24/2012	07431-054	0.0-2.0	ND	ND	28.2	25.2	ND	ND	53.4
	T-36 (2.0-4.0)	7/24/2012	07431-055	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	T-36 (4.0-4.5)	7/24/2012	07431-056	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	T-36 (4.5-6.0)	7/24/2012	07431-057	4.5-6.0	ND	ND	ND	ND	ND	ND	0
T-37	T-37 (0.0-2.0)	7/24/2012	07431-049	0.0-2.0	ND	ND	ND	310	ND	ND	310
	T-37 (2.0-4.0)	7/24/2012	07431-050	2.0-4.0	ND	ND	123	ND	ND	ND	123
	T-37 (4.0-6.0)	7/24/2012	07431-051	4.0-6.0	ND	ND	0.078	ND	ND	ND	0.078
	T-37 (6.0-7.0)	7/24/2012	07431-052	6.0-7.0	ND	ND	0.494	ND	ND	ND	0.494
	T-37 (7.0-8.0)	7/24/2012	07431-053	7.0-8.0	ND	ND	ND	ND	ND	ND	0

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
T-38	T-38 (0.0-2.0)	7/24/2012	07431-045	0.0-2.0	ND	36.9	ND	41.4	ND	ND	78.3
	T-38 (2.0-4.0)	7/24/2012	07431-046	2.0-4.0	ND	ND	ND	9250	ND	ND	9250
	T-38 (4.0-5.0)	7/24/2012	07431-047	4.0-5.0	ND	ND	ND	0.952	ND	ND	0.952
	T-38 (5.0-6.0)	7/24/2012	07431-048	5.0-6.0	ND	ND	ND	ND	ND	ND	0
T-38E	T-38E (4.0-6.0)	4/25/2013	03804-023	4.0-6.0	ND	ND	ND	0.338	ND	ND	0.338
T-38N	T-38N (2.0-4.0)	4/25/2013	03804-024	2.0-4.0	ND	ND	ND	139	ND	ND	139
T-38S	T-38S (0-2.0)	4/25/2013	03804-025	0.0-2.0	ND	ND	915	736	ND	ND	1651
T-39	T-39 (0.0-2.0)	6/29/2012	06506-024	0.0-2.0	ND	ND	ND	1650	ND	ND	1650
	T-39 (2.0-4.0)	6/29/2012	06506-025	2.0-4.0	ND	ND	ND	4890	ND	ND	4890
	T-39 (4.0-6.0)	6/29/2012	06506-026	4.0-6.0	ND	ND	ND	15.1	ND	ND	15.1
T-39S	T-39S (4.0-6.0)	4/25/2013	03804-026	4.0-6.0	ND	ND	ND	2330	ND	ND	2330
T-39W	T-39W (0-2.0)	4/26/2013	03859-003	0.0-2.0	ND	ND	871	1630	ND	ND	2501
T-40	T-40 (0.0-2.0)	6/29/2012	06506-027	0.0-2.0	ND	ND	ND	1000	ND	ND	1000
	T-40 (2.0-4.0)	6/29/2012	06506-028	2.0-4.0	ND	ND	ND	698	ND	ND	698
	T-40 (4.0-4.5)	6/29/2012	06506-029	4.0-4.5	ND	ND	ND	1730	ND	ND	1730
	T-40 (4.5-6.0)	6/29/2012	06506-030	4.5-6.0	ND	ND	ND	140	ND	ND	140
	T-40 (5.0-5.5)	8/9/2012	08092-032	5.0-5.5	ND	ND	ND	ND	72.9	ND	72.9
	T-40 (6.0-6.5)	8/9/2012	08092-033	6.0-6.5	ND	ND	ND	ND	ND	ND	0
T-40W	T-40W (0-2.0)	4/26/2013	03859-001	0.0-2.0	ND	ND	2070	2660	ND	ND	4730
	T-40W (4.0-6.0)	4/26/2013	03859-002	4.0-6.0	ND	ND	ND	433	ND	ND	433
T-41	T-41 (0.0-2.0)	6/29/2012	06506-031	0.0-2.0	ND	ND	ND	212	ND	ND	212
	T-41 (2.0-3.0)	6/29/2012	06506-032	2.0-3.0	ND	ND	ND	1790	ND	ND	1790
	T-41 (3.0-4.0)	6/29/2012	06506-033	3.0-4.0	ND	ND	329	514	ND	ND	843
	T-41 (4.0-6.0)	6/29/2012	06506-034	4.0-6.0	ND	ND	ND	1130	ND	ND	1130
	T-41 (5.5-6.0)	8/9/2012	08092-028	5.5-6.0	ND	ND	ND	5.26	ND	ND	5.26
	T-41 (6.0-6.5)	8/9/2012	08092-029	6.0-6.5	ND	ND	ND	0.476	ND	ND	0.476
	VIII-21	11/30/2001	G-30	3.5-4.0'	ND	ND	ND	780	NA	NA	780
T-41N	T-41N (0-2.0)	4/25/2013	03804-027	0.0-2.0	ND	ND	ND	2360	ND	ND	2360
T-41S	T-41S (0-2.0)	4/25/2013	03804-028	0.0-2.0	ND	ND	959	676	ND	ND	1635
	T-41S (2.0-4.0)	4/25/2013	03804-029	2.0-4.0	ND	ND	4150	4430	ND	ND	8580
T-41W	T-41W (0-2.0)	4/25/2013	03804-034	0.0-2.0	ND	ND	396	390	ND	ND	786
	T-41W (2.0-4.0)	4/25/2013	03804-035	2.0-4.0	ND	ND	783	787	ND	ND	1570
T-42	T-42 (0.0-2.0)	7/16/2012	07070-001	0.0-2.0	ND	ND	ND	30.5	ND	ND	30.5
	T-42 (2.0-3.0)	7/16/2012	07070-002	2.0-3.0	ND	ND	ND	137	ND	ND	137
	T-42 (3.0-4.0)	7/16/2012	07070-003	3.0-4.0	ND	ND	ND	2.62	ND	ND	2.62
	T-42 (4.0-6.0)	7/16/2012	07070-004	4.0-6.0	ND	ND	ND	628	ND	ND	628
	T-42 (6.0-8.0)	7/16/2012	07070-005	6.0-8.0	ND	ND	ND	30.8	ND	ND	30.8
	G-30B(N)	11/20/1995	N of G-30B	4.5-5.0	ND	ND	ND	122	NA	NA	122
T-42S	T-42S (2.0-4.0)	4/25/2013	03804-030	2.0-4.0	ND	ND	41.6	30.4	ND	ND	72
	T-42S (4.0-6.0)	4/25/2013	03804-031	4.0-6.0	ND	ND	ND	7.07	ND	ND	7.07
T-42W	T-42W (0-2.0)	4/25/2013	03804-032	0.0-2.0	ND	ND	62.5	72.6	ND	ND	135.1
	T-42W (4.0-6.0)	4/25/2013	03804-033	4.0-6.0	ND	ND	56.5	74.7	ND	ND	131.2
T-43	T-43 (0.0-2.0)	6/29/2012	06506-035	0.0-2.0	ND	8.39	ND	22.9	ND	ND	31.29
	T-43 (2.0-4.0)	6/29/2012	06506-036	2.0-4.0	ND	8.71	ND	14.6	ND	ND	23.31
	T-43 (4.0-6.0)	6/29/2012	06506-037	4.0-6.0	ND	ND	ND	1.15	ND	ND	1.15
	G-30B(E)	11/20/1995	E of G-30B	4.5-5.0	ND	ND	7.69	8.56	NA	NA	16.25
T-44	T-44 (0-2.0)	6/29/2012	06506-038	0.0-2.0	ND	ND	5.9	ND	ND	ND	5.9
	T-44 (2.0-4.0)	6/29/2012	06506-039	2.0-4.0	ND	ND	3.28	ND	ND	ND	3.28
	T-44 (4.0-6.0)	6/29/2012	06506-040	4.0-6.0	ND	ND	ND	20.1	ND	ND	20.1
	G-30C	6/2/1995	E of G-30	0-0.5	ND	11	6.5	6.5	NA	NA	24
	G-30D	6/9/1995	E of G-30	4.5-5.0	ND	ND	ND	ND	NA	NA	0
U-7	U-7 (0.0-2.0)	8/6/2012	07954-025	0.0-2.0	ND	2.9	ND	ND	ND	ND	2.9
	U-7 (2.0-3.5)	8/6/2012	07954-026	2.0-3.5	ND	0.863	ND	ND	ND	ND	0.863
	U-7 (3.5-4.0)	8/6/2012	07954-027	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	U-7 (4.5-6.0)	8/6/2012	07954-028	4.5-6.0	ND	0.103	ND	ND	ND	ND	0.103

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U-8	U-8 (0.0-2.0)	8/6/2012	07954-021	0.0-2.0	ND	4.01	ND	ND	ND	ND	4.01
	U-8 (2.0-4.0)	8/6/2012	07954-022	2.0-4.0	ND	0.163	ND	ND	ND	ND	0.163
	U-8 (4.0-4.5)	8/6/2012	07954-023	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	U-8 (4.5-6.0)	8/6/2012	07954-024	4.5-6.0	ND	ND	ND	ND	ND	ND	0
U-9	U-9 (0.0-2.0)	8/6/2012	07954-040	0.0-2.0	ND	1.83	ND	ND	ND	ND	1.83
	U-9 (2.0-4.0)	8/6/2012	07954-041	2.0-4.0	ND	0.356	ND	ND	ND	ND	0.356
	U-9 (4.25-4.75)	8/6/2012	07954-042	4.25-4.75	15.9	ND	ND	ND	ND	ND	15.9
	U-9 (4.75-6.0)	8/6/2012	07954-043	4.75-6.0	2.03	ND	ND	ND	ND	ND	2.03
U-10	U-10 (0.0-2.0)	8/6/2012	07954-044	0.0-2.0	ND	36.5	ND	ND	ND	ND	36.5
	U-10 (2.0-4.0)	8/6/2012	07954-045	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-10 (4.25-4.5)	8/6/2012	07954-046	4.25-4.5	ND	ND	ND	ND	ND	ND	0
	U-10 (4.5-6.0)	8/6/2012	07954-047	4.5-6.0	ND	ND	ND	ND	ND	ND	0
	III-12	11/29/2002	G-1	0.0-0.5'	3.8	ND	ND	ND	NA	NA	3.8
U-11	U-11 (0.0-2.0)	7/30/2012	07662-005	0.0-2.0	ND	54.3	ND	ND	ND	ND	54.3
	U-11 (2.0-3.0)	7/30/2012	07662-006	2.0-3.0	ND	115	ND	ND	ND	ND	115
	U-11 (3.0-4.0)	7/30/2012	07662-007	3.0-4.0	ND	248	ND	ND	ND	ND	248
	U-11 (4.0-4.5)	7/30/2012	07662-008	4.0-4.5	ND	1.78	ND	ND	ND	ND	1.78
	U-11 (4.5-6.0)	7/30/2012	07662-009	4.5-6.0	ND	0.979	ND	ND	ND	ND	0.979
U-11N	U-11N (0-2.0)	4/5/2013	03119-012	0.0-2.0	ND	4.28	ND	ND	ND	ND	4.28
	U-11N (2.0-4.0)	4/5/2013	03119-013	2.0-4.0	ND	2.31	ND	ND	ND	ND	2.31
U-11S	U-11S (0-2.0)	4/5/2013	03119-010	0.0-2.0	ND	3.2	ND	ND	ND	ND	3.2
	U-11S (2.0-4.0)	4/5/2013	03119-011	2.0-4.0	ND	5.93	ND	ND	ND	ND	5.93
U-11W	U-11W (0-2.0)	4/5/2013	03119-014	0.0-2.0	ND	16.8	ND	ND	ND	ND	16.8
	U-11W (2.0-4.0)	4/5/2013	03119-015	2.0-4.0	ND	1.84	ND	ND	ND	ND	1.84
U-12	U-12 (0.0-2.0)	7/20/2012	07337-033	0.0-2.0	ND	15.7	ND	ND	ND	ND	15.7
	U-12 (2.0-4.0)	7/20/2012	07337-034	2.0-4.0	ND	8.92	ND	ND	ND	ND	8.92
	U-12 (4.0-5.25)	7/20/2012	07337-035	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	U-12 (5.25-6.0)	7/20/2012	07337-036	5.25-6.0	ND	0.506	ND	ND	ND	ND	0.506
U-13	U-13 (0.0-2.0)	7/20/2012	07337-028	0.0-2.0	ND	76.5	ND	ND	ND	ND	76.5
	U-13 (2.0-4.0)	7/20/2012	07337-029	2.0-4.0	ND	0.547	ND	ND	ND	ND	0.547
	U-13 (4.0-4.25)	7/20/2012	07337-030	4.0-4.25	ND	1.73	ND	ND	ND	ND	1.73
	U-13 (4.25-5.0)	7/20/2012	07337-031	4.25-5.0	ND	ND	ND	ND	ND	ND	0
	U-13 (5.0-6.0)	7/20/2012	07337-032	5.0-6.0	ND	ND	ND	ND	ND	ND	0
U-13E	U-13E (0-2.0)	4/5/2013	03119-007	0.0-2.0	ND	20.8	ND	ND	ND	ND	20.8
U-13N	U-13N (0-2.0)	4/5/2013	03119-008	0.0-2.0	ND	1.88	ND	ND	ND	ND	1.88
U-13W	U-13W (0-2.0)	4/5/2013	03119-009	0.0-2.0	ND	280	ND	ND	ND	ND	280
U-14	U-14 (0.0-2.0)	7/19/2012	07241-034	0.0-2.0	ND	169	ND	ND	ND	ND	169
	U-14 (2.0-3.0)	7/19/2012	07241-035	2.0-3.0	ND	1.66	ND	ND	ND	ND	1.66
	U-14 (3.0-4.0)	7/19/2012	07241-036	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-14 (4.0-6.0)	7/19/2012	07241-037	4.0-6.0	ND	ND	ND	ND	ND	ND	0
U-14E	U-14E (0-2.0)	4/5/2013	03119-006	0.0-2.0	ND	42	ND	ND	ND	ND	42
U-14S	U-14S (0-2.0)	4/5/2013	03119-005	0.0-2.0	ND	18.3	ND	ND	ND	ND	18.3
U-15	U-15 (0.0-2.0)	7/19/2012	07241-017	0.0-2.0	ND	0.208	ND	ND	ND	ND	0.208
	U-15 (2.0-3.0)	7/19/2012	07241-018	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	U-15 (3.0-4.0)	7/19/2012	07241-019	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-15 (4.0-6.0)	7/19/2012	07241-020	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	IV-6C	11/29/2001	G-3	0-0.5	ND	280	ND	ND	NA	NA	280
	IV-6C(1)	11/29/2001	G-3	3.0-3.5	1.3	ND	ND	ND	NA	NA	1.3
U-16	U-16 (0.0-2.0)	7/19/2012	07241-005	0.0-2.0	ND	0.257	ND	ND	ND	ND	0.257
	U-16 (2.0-3.0)	7/19/2012	07241-006	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	U-16 (3.0-4.0)	7/19/2012	07241-007	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-16 (4.0-6.0)	7/19/2012	07241-008	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	IV-6B	11/29/2001	G-3	0-0.5	ND	0.19	ND	ND	NA	NA	0.19
U-17	U-17 (0-2.0)	10/19/2012	10655-051	0.0-2.0	ND	3.84	ND	ND	ND	ND	3.84
	U-17 (2.0-4.0)	10/19/2012	10655-052	2.0-4.0	ND	6.01	ND	ND	ND	ND	6.01
	U-17 (4.0-5.0)	10/19/2012	10655-053	4.0-5.0	ND	1.61	ND	ND	ND	ND	1.61
	U-17 (5.0-6.0)	10/19/2012	10655-054	5.0-6.0	ND	ND	ND	ND	ND	ND	0

TABLE 1
ARSYNCO, INC
CARLSTADT, NJ
TRACT 1 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
U-18	U-18 (2.0-4.0)	10/19/2012	10655-048	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-18 (4.0-5.0)	10/19/2012	10655-049	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	U-18 (5.0-6.0)	10/19/2012	10655-050	5.0-6.0	ND	ND	ND	ND	ND	ND	0
U-20	U-20 (0.0-2.0)	7/13/2012	07021-010	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	U-20 (2.0-4.0)	7/13/2012	07021-011	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-20 (4.0-6.0)	7/13/2012	07021-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
U-21	U-21 (0.0-2.0)	7/12/2012	06968-031	0.0-2.0	ND	24.6	ND	ND	ND	ND	24.6
	U-21 (2.0-4.0)	7/12/2012	06968-032	2.0-4.0	ND	0.745	ND	ND	ND	ND	0.745
	U-21 (4.0-6.0)	7/12/2012	06968-033	4.0-6.0	ND	ND	ND	ND	ND	ND	0
U-22	U-22 (0.0-2.0)	7/12/2012	06968-022	0.0-2.0	ND	1.57	ND	ND	ND	ND	1.57
	U-22 (2.0-4.0)	7/12/2012	06968-023	2.0-4.0	ND	0.292	ND	ND	ND	ND	0.292
	U-22 (4.0-6.0)	7/12/2012	06968-024	4.0-6.0	ND	ND	ND	ND	ND	ND	0
U-23	U-23 (0.0-2.0)	7/12/2012	06968-004	0.0-2.0	ND	18.7	ND	4.54	ND	ND	23.24
	U-23 (2.0-4.0)	7/12/2012	06968-005	2.0-4.0	ND	0.181	ND	ND	ND	ND	0.181
	U-23 (4.0-6.0)	7/12/2012	06968-006	4.0-6.0	ND	0.254	ND	ND	ND	ND	0.254
U-26	U-26 (0.0-2.0)	8/7/2012	07988-017	0.0-2.0	ND	ND	9.7	13	ND	ND	22.7
	U-26 (2.0-3.5)	8/7/2012	07988-018	2.0-3.5	ND	ND	ND	ND	ND	ND	0
	U-26 (3.5-4.0)	8/7/2012	07988-019	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	U-26 (4.0-6.0)	8/7/2012	07988-020	4.0-6.0	ND	ND	ND	ND	ND	ND	0
U-27	U-27 (0.0-2.0)	7/13/2012	07021-028	0.0-2.0	ND	162	ND	ND	ND	ND	162
	U-27 (2.0-4.0)	7/13/2012	07021-029	2.0-4.0	ND	1.84	ND	1.72	ND	ND	3.56
	U-27 (4.0-6.0)	7/13/2012	07021-030	4.0-6.0	ND	0.124	ND	0.083	ND	ND	0.207
U-28	U-28 (0.0-2.0)	7/13/2012	07021-031	0.0-2.0	ND	0.588	ND	1.06	ND	ND	1.648
	U-28 (2.0-4.0)	7/13/2012	07021-032	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-28 (4.0-6.0)	7/13/2012	07021-033	4.0-6.0	ND	ND	ND	ND	ND	ND	0
U-29	U-29 (0.0-2.0)	7/13/2012	07021-037	0.0-2.0	ND	ND	ND	383	ND	ND	383
	U-29 (2.0-4.0)	7/13/2012	07021-038	2.0-4.0	ND	ND	ND	151	ND	ND	151
	U-29 (4.0-4.5)	7/13/2012	07021-039	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	U-29 (4.5-6.0)	7/13/2012	07021-040	4.5-6.0	ND	ND	ND	0.986	ND	ND	0.986
	G-18A	11/10/1994	G-18	0.5-1.0	ND	ND	21	43	NA	NA	64
	G-18B	11/10/1994	G-18	2.0-2.5	ND	ND	2.1	2.2	NA	NA	4.3
	G-18N	6/8/1995	G-18 Native	5.5-6.0	ND	ND	ND	0.028	NA	NA	0.028
U-29E	U-29E (0-2.0)	8/15/2013	07948-018	0.0-2.0	ND	ND	ND	3.23	ND	ND	3.23
U-30	U-30 (0.0-2.0)	7/17/2012	07117-001	0.0-2.0	ND	14.7	ND	26.7	ND	ND	41.4
	U-30 (2.0-3.0)	7/17/2012	07117-002	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	U-30 (3.5-4.0)	7/17/2012	07117-003	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	U-30 (4.0-6.0)	7/17/2012	07117-004	4.0-6.0	ND	ND	ND	ND	ND	ND	0
U-31	U-31 (0.0-2.0)	7/17/2012	07117-005	0.0-2.0	ND	1.67	ND	1.15	ND	ND	2.82
	U-31 (2.0-3.5)	7/17/2012	07117-006	2.0-3.5	ND	ND	ND	0.287	ND	ND	0.287
	U-31 (3.5-4.0)	7/17/2012	07117-007	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	U-31 (4.0-6.0)	7/17/2012	07117-008	4.0-6.0	ND	ND	ND	ND	ND	ND	0
U-33	U-33 (0-2.0)	10/18/2012	10574-033	0.0-2.0	ND	ND	ND	52.9	ND	ND	52.9
	U-33 (2.0-4.0)	10/18/2012	10574-034	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-33 (4.0-5.0)	10/18/2012	10574-035	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	U-33 (5.0-5.5)	10/18/2012	10574-036	5.0-5.5	ND	ND	ND	ND	ND	ND	0
	U-33 (5.5-6.0)	10/18/2012	10574-037	5.5-6.0	ND	ND	ND	ND	ND	ND	0
U-34	U-34 (0-2.0)	10/18/2012	10574-038	0.0-2.0	ND	ND	8.2	ND	ND	ND	8.2
	U-34 (2.0-4.0)	10/18/2012	10574-039	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	U-34 (4.0-5.0)	10/18/2012	10574-040	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	U-34 (5.0-6.0)	10/18/2012	10574-041	5.0-6.0	ND	ND	ND	ND	ND	ND	0
U-35	U-35 (0-2.0)	9/13/2012	09301-040	0.0-2.0	ND	ND	31.5	ND	ND	ND	31.5
	U-35 (2.0-4.0)	9/13/2012	09301-041	2.0-4.0	ND	2.85	ND	1.54	ND	ND	4.39
	U-35 (4.0-5.25)	9/13/2012	09301-042	4.0-4.25	ND	2.55	ND	2.85	ND	ND	5.4
	U-35 (5.25-6.0)	9/13/2012	09301-043	5.25-6.0	ND	ND	ND	ND	ND	ND	0
U-36	U-36 (0.0-2.0)	7/24/2012	07431-031	0.0-2.0	ND	56.6	ND	45.4	ND	ND	102
	U-36 (2.0-4.0)	7/24/2012	07431-032	2.0-4.0	ND	ND	ND	0.175	ND	ND	0.175
	U-36 (4.0-5.0)	7/24/2012	07431-033	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	U-36 (5.0-6.0)	7/24/2012	07431-034	5.0-6.0	ND	ND	ND	ND	ND	ND	0

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
U-37	U-37 (0.0-2.0)	7/24/2012	07431-035	0.0-2.0	ND	ND	30.4	49.6	ND	ND	80
	U-37 (2.0-3.0)	7/24/2012	07431-036	2.0-3.0	ND	ND	ND	1260	ND	ND	1260
	U-37 (3.0-4.0)	7/24/2012	07431-037	3.0-4.0	ND	ND	ND	ND	7.94	ND	7.94
	U-37 (4.0-5.25)	7/24/2012	07431-038	4.0-5.25	ND	ND	ND	ND	2.98	ND	2.98
	U-37 (5.25-6.0)	7/24/2012	07431-039	5.25-6.0	ND	ND	ND	ND	6.66	ND	6.66
U-37E	U-37E (4.0-6.0)	4/24/2013	03750-031	4.0-6.0	ND	ND	ND	0.797	ND	ND	0.797
U-37N	U-37N (2.0-4.0)	4/24/2013	03750-033	2.0-4.0	ND	ND	ND	42.6	ND	ND	42.6
U-37W	U-37W (2.0-4.0)	4/24/2013	03750-034	2.0-4.0	ND	ND	ND	17.9	ND	ND	17.9
U-38	U-38 (0.0-1.75)	7/24/2012	07431-040	0.0-1.75	ND	93.2	ND	30.3	ND	ND	123.5
	U-38 (2.0-4.0)	7/24/2012	07431-041	2.0-4.0	ND	ND	ND	4490	ND	ND	4490
	U-38 (4.0-4.5)	7/24/2012	07431-042	4.0-4.5	ND	ND	ND	1470	ND	ND	1470
	U-38 (4.5-5.25)	7/24/2012	07431-043	4.5-5.25	ND	ND	ND	0.48	ND	ND	0.48
	U-38 (5.25-6.0)	7/24/2012	07431-044	5.25-6.0	ND	ND	ND	163	ND	ND	163
	U-38 (6.0-7.0)	9/13/2012	09301-033	6.0-7.0	ND	ND	ND	0.902	ND	ND	0.902
	U-38 (7.0-8.0)	9/13/2012	09301-034	7.0-8.0	ND	ND	ND	0.324	ND	ND	0.324
U-38E	U-38E (0-2.0)	4/24/2013	03750-029	0.0-2.0	ND	ND	ND	466	ND	ND	466
	U-38E (4.0-6.0)	4/24/2013	03750-030	4.0-6.0	ND	ND	ND	1.27	ND	ND	1.27
U-38N	U-38N (4.0-6.0)	4/25/2013	03804-001	4.0-6.0	ND	ND	ND	0.896	ND	ND	0.896
U-39	U-39 (0-2.0)	6/29/2012	06506-021	0.0-2.0	ND	ND	ND	355	ND	ND	355
	U-39 (2.0-4.0)	6/29/2012	06506-022	2.0-4.0	ND	ND	ND	6470	ND	ND	6470
	U-39 (4.0-6.0)	6/29/2012	06506-023	4.0-6.0	ND	ND	ND	54.3	ND	ND	54.3
	U-39 (5.0-5.5)	8/9/2012	08092-025	5.0-5.5	ND	ND	ND	97.6	ND	ND	97.6
	U-39 (6.0-6.5)	8/9/2012	08092-026	6.0-6.5	ND	ND	ND	0.198	ND	ND	0.198
U-39E	U-39E (0-2.0)	4/24/2013	03750-028	0.0-2.0	ND	ND	ND	13100	ND	ND	13100
U-39N	U-39N (4.0-6.0)	4/25/2013	03804-002	4.0-6.0	ND	ND	ND	1380	ND	ND	1380
U-39W	U-39W (0-2.0)	4/25/2013	03804-021	0.0-2.0	ND	ND	1110	1830	ND	ND	2940
	U-39W (4.0-6.0)	4/25/2013	03804-022	4.0-6.0	ND	ND	ND	3350	ND	ND	3350
U-40	U-40 (0.0-2.0)	6/29/2012	06506-017	0.0-2.0	ND	ND	ND	333	ND	ND	333
	U-40 (2.0-2.5)	6/29/2012	06506-018	2.0-2.5	ND	ND	ND	207	ND	ND	207
	U-40 (2.5-4.0)	6/29/2012	06506-019	2.5-4.0	ND	ND	ND	3150	ND	ND	3150
	U-40 (4.0-6.0)	6/29/2012	06506-020	4.0-6.0	ND	ND	ND	13.7	ND	ND	13.7
U-40S	U-40S (2.0-4.0)	4/25/2013	03804-003	2.0-4.0	ND	ND	ND	3350	ND	ND	3350
	U-40S (4.0-6.0)	4/25/2013	03804-004	4.0-6.0	ND	ND	ND	3820	ND	ND	3820
U-40W	U-40W (0-2.0)	4/25/2013	03804-019	0.0-2.0	ND	ND	ND	1470	ND	ND	1470
	U-40W (4.0-6.0)	4/25/2013	03804-020	4.0-6.0	ND	ND	ND	48.6	ND	ND	48.6
U-41	U-41 (0.0-2.0)	6/29/2012	06506-014	0.0-2.0	ND	ND	ND	305	ND	ND	305
	U-41 (2.0-4.0)	6/29/2012	06506-015	2.0-4.0	ND	ND	ND	322	ND	ND	322
	U-41 (4.0-6.0)	6/29/2012	06506-016	4.0-6.0	ND	ND	ND	6110	ND	ND	6110
	U-41 (5.5-6.0)	8/9/2012	08092-022	5.5-6.0	ND	ND	ND	8.63	ND	ND	8.63
	U-41 (6.0-6.5)	8/9/2012	08092-023	6.0-6.5	ND	ND	ND	15.9	ND	ND	15.9
U-41S	U-41S (2.0-4.0)	4/25/2013	03804-005	2.0-4.0	ND	ND	ND	4480	ND	ND	4480
	U-41S (4.0-6.0)	4/25/2013	03804-006	4.0-6.0	ND	ND	ND	1.51	ND	ND	1.51
U-41W	U-41W (2.0-4.0)	4/25/2013	03804-018	2.0-4.0	ND	ND	ND	3840	ND	ND	3840
U-42	U-42 (0.0-2.0)	6/29/2012	06506-011	0.0-2.0	ND	25.5	ND	23	ND	ND	48.5
	U-42 (2.0-4.0)	6/29/2012	06506-012	2.0-4.0	ND	ND	ND	803	ND	ND	803
	U-42 (4.0-6.0)	6/29/2012	06506-013	4.0-6.0	ND	ND	ND	14.1	ND	ND	14.1
U-42E	U-42E (0-2.0)	4/24/2013	03750-021	0.0-2.0	ND	ND	5.81	5.33	ND	ND	11.14
	U-42E (2.0-4.0)	4/24/2013	03750-022	2.0-4.0	ND	ND	ND	143	ND	ND	143
	U-42E (4.0-6.0)	4/24/2013	03750-023	4.0-6.0	ND	ND	ND	2030	ND	ND	2030
U-42S	U-42S (0-2.0)	4/25/2013	03804-007	0.0-2.0	ND	81.3	45	ND	ND	ND	126.3
	U-42S (2.0-4.0)	4/25/2013	03804-008	2.0-4.0	ND	ND	ND	2920	ND	ND	2920
	U-42S (4.0-6.0)	4/25/2013	03804-009	4.0-6.0	ND	ND	ND	0.907	ND	ND	0.907
U-42W	U-42W (2.0-4.0)	4/25/2013	03804-016	2.0-4.0	ND	ND	ND	324	ND	ND	324
	U-42W (4.0-6.0)	4/25/2013	03804-017	4.0-6.0	ND	ND	ND	814	ND	ND	814

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U-43	U-43 (0.0-2.0)	6/29/2012	06506-007	0.0-2.0	ND	ND	ND	799	ND	ND	799
	U-43 (2.0-4.0)	6/29/2012	06506-008	2.0-4.0	ND	ND	ND	408	ND	ND	408
	U-43 (4.0-6.0)	6/29/2012	06506-009	4.0-6.0	ND	ND	ND	738	ND	ND	738
	U-43 (6.0-8.0)	6/29/2012	06506-010	6.0-8.0	ND	0.364	ND	0.638	ND	ND	1.002
U-43E	U-43E (0-2.0)	4/24/2013	03750-018	0.0-2.0	ND	ND	ND	204	ND	ND	204
	U-43E (2.0-4.0)	4/24/2013	03750-019	2.0-4.0	ND	2	ND	2.18	ND	ND	4.18
	U-43E (4.0-6.0)	4/24/2013	03750-020	4.0-6.0	ND	ND	ND	1620	ND	ND	1620
U-43S	U-43S (2.0-4.0)	4/25/2013	03804-010	2.0-4.0	ND	12.2	ND	3.4	ND	ND	15.6
	U-43S (4.0-5.5)	4/25/2013	03804-011	4.0-5.5	ND	ND	ND	0.666	ND	ND	0.666
	U-43S (5.5-6.0)	4/25/2013	03804-012	5.5-6.0	ND	ND	ND	ND	ND	ND	0
U-43W	U-43W (0-2.0)	4/25/2013	03804-013	0.0-2.0	ND	421	ND	785	ND	ND	1206
	U-43W (2.0-4.0)	4/25/2013	03804-014	2.0-4.0	ND	6.81	ND	3.85	ND	ND	10.66
	U-43W (4.0-6.0)	4/25/2013	03804-015	4.0-6.0	ND	ND	ND	1180	ND	ND	1180
U-43W(1)	U-43W(1) (4.0-6.0)	8/22/2013	08218-011	4.0-6.0	ND	0.178	ND	0.296	ND	ND	0.474
U-44	U-44 (0.0-2.0)	6/29/2012	06506-004	0.0-2.0	ND	136	ND	370	ND	ND	506
	U-44 (2.0-4.0)	6/29/2012	06506-005	2.0-4.0	ND	1.11	ND	ND	ND	ND	1.11
	U-44 (4.0-6.0)	6/29/2012	06506-006	4.0-6.0	ND	0.363	ND	ND	ND	ND	0.363
V-7	G-2C	6/2/1995	N of G-2	0-0.5	ND	14	ND	ND	NA	NA	14
	G-2D	6/5/1995	N of G-2	3.0-3.5	ND	ND	ND	ND	NA	NA	0
	G-2E	5/22/1998	N of G-2	0-0.5	ND	25.2	ND	0.224	NA	NA	25.424
	G-2F	5/22/1998	N of G-2	3.0-3.5	ND	0.0036	ND	ND	NA	NA	0.0036
V-8	V-8 (0.0-2.0)	8/6/2012	07954-017	0.0-2.0	ND	0.686	ND	ND	ND	ND	0.686
	V-8 (2.0-3.25)	8/6/2012	07954-018	2.0-3.25	ND	0.045	ND	ND	ND	ND	0.045
	V-8 (3.25-4.0)	8/6/2012	07954-019	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-8 (4.5-6.0)	8/6/2012	07954-020	4.5-6.0	ND	ND	ND	ND	ND	ND	0
V-9	V-9 (0.0-2.0)	8/6/2012	07954-013	0.0-2.0	ND	0.288	ND	ND	ND	ND	0.288
	V-9 (2.0-3.25)	8/6/2012	07954-014	2.0-3.25	ND	ND	ND	ND	ND	ND	0
	V-9 (3.25-4.0)	8/6/2012	07954-015	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-9 (4.0-6.0)	8/6/2012	07954-016	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-10	V-10 (0.0-2.0)	8/6/2012	07954-009	0.0-2.0	ND	34.4	ND	ND	ND	ND	34.4
	V-10 (2.0-3.0)	8/6/2012	07954-010	2.0-3.0	ND	13.9	ND	ND	ND	ND	13.9
	V-10 (3.0-4.0)	8/6/2012	07954-011	3.0-4.0	ND	0.651	ND	ND	ND	ND	0.651
	V-10 (4.0-6.0)	8/6/2012	07954-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-11	V-11 (0.0-2.0)	7/30/2012	07662-001	0.0-2.0	ND	258	ND	ND	ND	ND	258
	V-11 (2.0-3.0)	7/30/2012	07662-002	2.0-3.0	ND	41.1	ND	ND	ND	ND	41.1
	V-11 (3.0-4.0)	7/30/2012	07662-003	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	V-11 (4.0-6.0)	7/30/2012	07662-004	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-11E	V-11E (0-2.0)	4/4/2013	03068-026	0.0-2.0	ND	28.5	ND	ND	ND	ND	28.5
V-11N	V-11N (0-2.0)	4/5/2013	03119-001	0.0-2.0	ND	ND	ND	ND	ND	ND	0
V-11W	V-11W (0-2.0)	8/21/2013	08149-005	0.0-2.0	ND	16.6	ND	ND	ND	ND	16.6
	V-11W (2.0-4.0)	4/5/2013	03119-004	2.0-4.0	ND	ND	ND	ND	ND	ND	0
V-12	V-12 (0.0-2.0)	8/6/2012	07954-005	0.0-2.0	ND	1560	ND	ND	ND	ND	1560
	V-12 (2.0-3.25)	8/6/2012	07954-006	2.0-3.25	ND	14.2	ND	ND	ND	ND	14.2
	V-12 (3.25-4.0)	8/6/2012	07954-007	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-12 (4.0-6.0)	8/6/2012	07954-008	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-12N	V-12N (0-2.0)	4/4/2013	03068-027	0.0-2.0	ND	21.8	ND	ND	ND	ND	21.8
V-12S	V-12S (0-2.0)	4/5/2013	03119-002	0.0-2.0	ND	ND	ND	ND	ND	ND	0
V-12W	V-12W (0-2.0)	4/5/2013	03119-003	0.0-2.0	ND	2.16	ND	ND	ND	ND	2.16
V-13	V-13 (0.0-2.0)	8/6/2012	07954-001	0.0-2.0	ND	12.2	ND	ND	ND	ND	12.2
	V-13 (2.0-3.25)	8/6/2012	07954-002	2.0-3.25	3.32	ND	ND	ND	ND	ND	3.32
	V-13 (3.25-4.0)	8/6/2012	07954-003	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-13 (4.0-6.0)	8/6/2012	07954-004	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-14	V-14 (0.0-2.0)	7/19/2012	07241-038	0.0-2.0	ND	7.94	ND	ND	ND	ND	7.94
	V-14 (2.0-3.25)	7/19/2012	07241-039	2.0-3.25	ND	0.75	ND	ND	ND	ND	0.75
	V-14 (3.25-4.0)	7/19/2012	07241-040	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-14 (4.0-6.0)	7/19/2012	07241-041	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
V-15	V-15 (0.0-2.0)	7/19/2012	07241-013	0.0-2.0	ND	49.6	ND	ND	ND	ND	49.6
	V-15 (2.0-4.0)	7/19/2012	07241-014	2.0-4.0	ND	17.1	ND	ND	ND	ND	17.1
	V-15 (4.0-5.0)	7/19/2012	07241-015	4.0-5.0	ND	22.6	ND	ND	ND	ND	22.6
	V-15 (5.0-6.0)	7/19/2012	07241-016	5.0-6.0	ND	0.093	ND	ND	ND	ND	0.093
	G-3A	11/10/1994	G-3	0.25-0.75	ND	1.5	ND	ND	NA	NA	1.5
	G-3B	11/10/1994	G-3	3.0-3.5	5.8	ND	ND	ND	NA	NA	5.8
	G-3C	6/2/1995	N of G-3	0-0.5	ND	0.25	ND	ND	NA	NA	0.25
V-16	V-16 (0.0-2.0)	7/19/2012	07241-009	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	V-16 (2.0-3.25)	7/19/2012	07241-010	2.0-3.25	ND	0.045	ND	ND	ND	ND	0.045
	V-16 (3.25-4.0)	7/19/2012	07241-011	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-16 (4.0-6.0)	7/19/2012	07241-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	IV-6D	11/29/2001	G-3	4.0-4.5	ND	ND	ND	ND	NA	NA	0
V-17	IV-6A	11/29/2001	G-3	0-0.5	ND	0.15	ND	0.029	NA	NA	0.179
V-21	V-21 (0.0-2.0)	7/12/2012	06968-028	0.0-2.0	ND	2.04	ND	ND	ND	ND	2.04
	V-21 (2.0-4.0)	7/12/2012	06968-029	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	V-21 (4.0-6.0)	7/12/2012	06968-030	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-22	V-22 (0.0-2.0)	7/12/2012	06968-025	0.0-2.0	ND	1.2	ND	2.86	ND	ND	4.06
	V-22 (2.0-4.0)	7/12/2012	06968-026	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	V-22 (4.0-6.0)	7/12/2012	06968-027	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-10A	11/11/1994	G-10	1.0-1.5	ND	220	ND	ND	NA	NA	220
	G-10B	11/11/1994	G-10	3.0-3.5	ND	3.9	ND	ND	NA	NA	3.9
V-23	V-23 (0.0-2.0)	7/12/2012	06968-001	0.0-2.0	ND	0.755	ND	ND	ND	ND	0.755
	V-23 (2.0-4.0)	7/12/2012	06968-002	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	V-23 (4.0-6.0)	7/12/2012	06968-003	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-26	V-26 (0-2.0)	4/3/2013	02986-014	0.0-2.0	ND	4.51	ND	8.41	ND	ND	12.92
V-27	V-27 (0.0-2.0)	7/17/2012	07117-058	0.0-2.0	ND	ND	ND	30.8	ND	ND	30.8
	V-27 (2.0-3.0)	7/17/2012	07117-059	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	V-27 (3.0-4.0)	7/17/2012	07117-060	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	V-27 (4.0-6.0)	7/17/2012	07117-061	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-28	V-28 (0.0-2.0)	7/17/2012	07117-043	0.0-2.0	ND	141	ND	28.3	ND	ND	169.3
	V-28 (2.0-2.5)	7/17/2012	07117-044	2.0-2.5	ND	0.063	ND	ND	ND	ND	0.063
	V-28 (2.5-3.5)	7/17/2012	07117-045	2.5-3.25	ND	ND	ND	ND	ND	ND	0
	V-28 (3.5-4.0)	7/17/2012	07117-046	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-28 (4.0-6.0)	7/17/2012	07117-047	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-28N	V-28N (0-2.0)	8/15/2013	07948-016	0.0-2.0	ND	ND	ND	1.89	ND	ND	1.89
V-28S	V-28S (0-2.0)	8/15/2013	07948-017	0.0-2.0	ND	2.24	ND	3.23	ND	ND	5.47
V-29	V-29 (0.0-2.0)	7/17/2012	07117-038	0.0-2.0	ND	21.1	ND	5.89	ND	ND	26.99
	V-29 (2.0-2.5)	7/17/2012	07117-039	2.0-2.5	ND	ND	ND	ND	ND	ND	0
	V-29 (2.5-3.25)	7/17/2012	07117-040	2.5-3.25	ND	ND	ND	ND	ND	ND	0
	V-29 (3.25-4.0)	7/17/2012	07117-041	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-29 (4.0-6.0)	7/17/2012	07117-042	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-30	V-30 (0.0-2.0)	7/17/2012	07117-030	0.0-2.0	ND	ND	ND	18.3	ND	ND	18.3
	V-30 (2.0-3.5)	7/17/2012	07117-031	2.0-3.5	ND	ND	ND	11.6	ND	ND	11.6
	V-30 (3.5-4.0)	7/17/2012	07117-032	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	V-30 (4.0-6.0)	7/17/2012	07117-033	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	V-30 (6.0-7.0)	7/17/2012	07117-034	6.0-7.0	ND	ND	ND	ND	ND	ND	0
	V-30 (7.0-8.0)	7/17/2012	07117-035	7.0-8.0	ND	50.6	ND	11.1	ND	ND	61.7
	V-30 (8.0-9.0)	7/17/2012	07117-036	8.0-9.0	ND	ND	ND	ND	ND	ND	0
	V-30 (9.0-10.0)	7/17/2012	07117-037	9.0-10.0	ND	ND	ND	ND	ND	ND	0
V-30E	V-30E (6.0-8.0)	8/16/2013	08025-002	6.0-8.0	ND	ND	ND	ND	ND	ND	0
V-30N	V-30N (6.0-8.0)	8/16/2013	08025-001	6.0-8.0	ND	0.05	ND	0.059	ND	ND	0.109
V-30S	V-30S (6.0-8.0)	8/16/2013	08025-003	6.0-8.0	ND	ND	ND	ND	ND	ND	0
V-30W	V-30W (6.0-8.0)	8/16/2013	08025-004	6.0-8.0	ND	ND	ND	ND	ND	ND	0
V-31	V-31 (0.0-2.0)	7/17/2012	07117-013	0.0-2.0	ND	ND	ND	28.7	ND	ND	28.7
	V-31 (2.0-3.25)	7/17/2012	07117-014	2.0-3.25	ND	ND	ND	ND	ND	ND	0
	V-31 (3.25-4.0)	7/17/2012	07117-015	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	V-31 (4.0-4.75)	7/17/2012	07117-016	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	V-31 (4.75-6.0)	7/17/2012	07117-017	4.75-6.0	ND	ND	ND	ND	ND	ND	0

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V-32	V-32 (0.0-2.0)	7/17/2012	07117-009	0.0-2.0	ND	ND	4.68	5.04	ND	ND	9.72
	V-32 (2.0-3.0)	7/17/2012	07117-010	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	V-32 (3.0-4.0)	7/17/2012	07117-011	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	V-32 (4.0-6.0)	7/17/2012	07117-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-33	V-33 (0.0-2.0)	7/23/2012	07371-013	0.0-2.0	ND	7.35	ND	13.3	ND	ND	20.65
	V-33 (2.0-4.0)	7/23/2012	07371-014	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	V-33 (4.0-5.0)	7/23/2012	07371-015	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	V-33 (5.0-6.0)	7/23/2012	07371-016	5.0-6.0	ND	ND	ND	ND	ND	ND	0
V-34	V-34 (0.0-2.0)	7/23/2012	07371-017	0.0-2.0	ND	6.44	ND	18.9	ND	ND	25.34
	V-34 (2.0-3.0)	7/23/2012	07371-018	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	V-34 (3.0-4.0)	7/23/2012	07371-019	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	V-34 (4.0-6.0)	7/23/2012	07371-020	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-35	V-35 (0.0-2.0)	7/23/2012	07371-021	0.0-2.0	ND	71.1	ND	20.8	ND	ND	91.9
	V-35 (2.0-3.5)	7/23/2012	07371-022	2.0-3.0	ND	ND	ND	254	ND	ND	254
	V-35 (3.5-4.0)	7/23/2012	07371-023	3.0-4.0	ND	ND	ND	ND	2.06	ND	2.06
	V-35 (4.0-6.0)	7/23/2012	07371-024	4.0-6.0	ND	ND	ND	ND	ND	ND	0
V-35W	V-35W (2.0-3.0)	8/21/2013	08149-010	2.0-3.0	ND	0.255	ND	ND	ND	ND	0.255
	V-35W (3.0-4.0)	8/21/2013	08149-011	3.0-4.0	ND	0.382	ND	ND	ND	ND	0.382
V-36	V-36 (0.0-2.0)	7/23/2012	07371-025	0.0-2.0	ND	122	ND	205	ND	ND	327
	V-36 (2.0-3.0)	7/23/2012	07371-026	2.0-3.0	ND	ND	ND	ND	820	ND	820
	V-36 (3.0-4.0)	7/23/2012	07371-027	3.0-4.0	ND	ND	ND	ND	184	ND	184
	V-36 (4.0-5.0)	7/23/2012	07371-028	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	V-36 (5.0-6.0)	7/23/2012	07371-029	5.0-6.0	ND	ND	ND	ND	ND	ND	0
V-36N	V-36N (2.0-4.0)	4/24/2013	03750-001	2.0-4.0	ND	ND	ND	34.6	ND	ND	34.6
V-36W	V-36W (2.0-4.0)	4/24/2013	03750-032	2.0-4.0	ND	ND	ND	535	ND	ND	535
V-37	V-37 (0.0-2.0)	7/23/2012	07371-030	0.0-2.0	ND	71.8	ND	33.6	ND	ND	105.4
	V-37 (2.0-3.0)	7/23/2012	07371-031	2.0-3.0	ND	116	ND	325	ND	ND	441
	V-37 (3.0-4.0)	7/23/2012	07371-032	3.0-4.0	ND	ND	ND	ND	852	ND	852
	V-37 (4.0-5.0)	7/23/2012	07371-033	4.0-5.0	ND	ND	ND	ND	1200	ND	1200
	V-37 (5.0-6.0)	7/23/2012	07371-034	5.0-6.0	ND	ND	ND	ND	2.3	ND	2.3
V-37N	V-37N (4.0-6.0)	4/24/2013	03750-003	4.0-6.0	ND	ND	ND	0.471	ND	ND	0.471
V-38	V-38 (0-2.0)	6/28/2012	06456-089	0.0-2.0	ND	ND	ND	759	ND	ND	759
	V-38 (2.0-4.0)	6/28/2012	06456-090	2.0-4.0	ND	ND	ND	ND	4810	ND	4810
	V-38 (4.0-6.0)	6/28/2012	06456-091	4.0-6.0	ND	ND	ND	ND	9.26	ND	9.26
V-38N	V-38N (0-2.0)	4/24/2013	03750-004	0.0-2.0	ND	ND	ND	1650	ND	ND	1650
	V-38N (4.0-6.0)	4/24/2013	03750-005	4.0-6.0	ND	ND	ND	4.24	ND	ND	4.24
V-39	V-39 (0-2.0)	6/28/2012	06456-092	0.0-2.0	ND	ND	ND	4030	ND	ND	4030
	V-39 (2.0-4.0)	6/28/2012	06456-093	2.0-4.0	ND	ND	ND	2960	ND	ND	2960
	V-39 (4.0-6.0)	6/28/2012	06456-094	4.0-6.0	ND	ND	ND	1.89	ND	ND	1.89
V-39E	V-39E (0-2.0)	4/23/2013	03698-032	0.0-2.0	ND	ND	ND	1230	ND	ND	1230
	V-39E (4.0-6.0)	4/23/2013	03698-033	4.0-6.0	ND	ND	ND	3.6	ND	ND	3.6
V-39S	V-39S (0-2.0)	4/24/2013	03750-006	0.0-2.0	176	ND	ND	320	ND	ND	496
	V-39S (2.0-4.0)	4/24/2013	03750-007	2.0-4.0	ND	ND	ND	4080	ND	ND	4080
V-40	V-40 (0-2.0)	6/28/2012	06456-095	0.0-2.0	ND	ND	ND	417	ND	ND	417
	V-40 (2.0-4.0)	6/28/2012	06456-096	2.0-4.0	ND	ND	ND	358	ND	ND	358
	V-40 (4.0-6.0)	6/28/2012	06456-097	4.0-6.0	ND	ND	ND	35.6	ND	ND	35.6
	G-20B(S)	11/21/1995	S of G-20B	2.0-2.5	ND	ND	ND	1380	NA	NA	1380
	PP-2	3/3/1993	G-20	0-0.5	ND	25	ND	110	NA	NA	135
V-40S	V-40S (0-2.0)	4/24/2013	03750-008	0.0-2.0	ND	ND	ND	2710	ND	ND	2710
	V-40S (2.0-4.0)	4/24/2013	03750-009	2.0-4.0	ND	ND	ND	4530	ND	ND	4530
V-40W	V-40W (2.0-4.0)	4/24/2013	03750-027	2.0-4.0	ND	ND	ND	9380	ND	ND	9380

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V-41	V-41 (0-2.0)	6/28/2012	06456-098	0.0-2.0	ND	ND	ND	15.3	ND	ND	15.3
	V-41 (2.0-4.0)	6/28/2012	06456-099	2.0-4.0	ND	ND	ND	ND	1940	ND	1940
	V-41 (4.0-6.0)	6/28/2012	06456-100	4.0-6.0	ND	ND	ND	4.53	ND	ND	4.53
V-41S	V-41S (0-2.0)	4/24/2013	03750-010	0.0-2.0	ND	ND	5.7	3.97	ND	ND	9.67
	V-41S (2.0-4.0)	4/24/2013	03750-011	2.0-4.0	ND	ND	ND	666	ND	ND	666
	V-41S (4.0-6.0)	4/24/2013	03750-012	4.0-6.0	ND	ND	ND	126	ND	ND	126
V-41W	V-41W (0-2.0)	4/24/2013	03750-024	0.0-2.0	ND	ND	ND	222	ND	ND	222
	V-41W (2.0-4.0)	4/24/2013	03750-025	2.0-4.0	ND	ND	ND	1830	ND	ND	1830
	V-41W (4.0-6.0)	4/24/2013	03750-026	4.0-6.0	ND	ND	ND	3000	ND	ND	3000
V-42	V-42 (0-2.0)	6/28/2012	06456-101	0.0-2.0	ND	ND	ND	148	ND	ND	148
	V-42 (2.0-4.0)	6/28/2012	06456-102	2.0-4.0	ND	ND	ND	215	ND	ND	215
	V-42 (4.0-6.0)	6/28/2012	06456-103	4.0-6.0	ND	ND	ND	165	ND	ND	165
	V-42 (5.5-6.0)	8/9/2012	08092-008	5.5-6.0	ND	ND	ND	7.63	ND	ND	7.63
	V-42 (6.0-6.5)	8/9/2012	08092-009	6.0-6.5	ND	ND	ND	1.13	ND	ND	1.13
V-42E	V-42E (2.0-4.0)	4/24/2013	03750-013	2.0-4.0	ND	ND	ND	2870	ND	ND	2870
	V-42E (4.0-6.0)	4/24/2013	03750-014	4.0-6.0	ND	ND	ND	ND	2520	ND	2520
V-42S	V-42S (0-2.0)	4/24/2013	03750-015	0.0-2.0	ND	1.54	ND	10.6	ND	ND	12.14
	V-42S (2.0-4.0)	4/24/2013	03750-016	2.0-4.0	ND	ND	ND	499	ND	ND	499
	V-42S (4.0-6.0)	4/24/2013	03750-017	4.0-6.0	ND	ND	ND	1080	ND	ND	1080
V-43	V-43 (0.0-2.0)	6/29/2012	06506-001	0.0-2.0	ND	10.2	ND	27.6	ND	ND	37.8
	V-43 (2.0-4.0)	6/29/2012	06506-002	2.0-4.0	ND	2.67	ND	1.41	ND	ND	4.08
	V-43 (4.0-6.0)	6/29/2012	06506-003	4.0-6.0	ND	0.261	ND	0.933	ND	ND	1.194
W-9	W-9 (0.0-2.0)	8/6/2012	07954-048	0.0-2.0	ND	1.26	ND	ND	ND	ND	1.26
	W-9 (2.0-3.75)	8/6/2012	07954-049	2.0-3.75	ND	ND	ND	ND	ND	ND	0
	W-9 (4.0-5.0)	8/6/2012	07954-050	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	W-9 (5.0-6.0)	8/6/2012	07954-051	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	PP-8	3/3/1993	N of G-2	0-0.5	ND	3.6	ND	ND	NA	NA	3.6
W-10	W-10 (0.0-2.0)	8/6/2012	07954-052	0.0-2.0	ND	13.4	ND	ND	ND	ND	13.4
	W-10 (2.0-3.5)	8/6/2012	07954-053	2.0-3.5	ND	0.214	ND	ND	ND	ND	0.214
	W-10 (4.0-5.0)	8/6/2012	07954-054	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	W-10 (5.0-6.0)	8/6/2012	07954-055	5.0-6.0	ND	ND	ND	ND	ND	ND	0
W-11	W-11 (0.0-2.0)	8/6/2012	07954-056	0.0-2.0	ND	17.4	ND	ND	ND	ND	17.4
	W-11 (2.0-4.0)	8/6/2012	07954-057	2.0-4.0	ND	3.11	ND	ND	ND	ND	3.11
	W-11 (4.5-5.25)	8/6/2012	07954-058	4.5-5.25	ND	ND	ND	ND	ND	ND	0
	W-11 (5.25-6.0)	8/6/2012	07954-059	5.25-6.0	ND	ND	ND	ND	ND	ND	0
	PP-9	3/3/1993	N of G-3	0-0.5	ND	35	ND	ND	NA	NA	35
W-12	W-12 (0.0-2.0)	8/7/2012	07988-005	0.0-2.0	3330	ND	ND	ND	ND	ND	3330
	W-12 (2.0-3.25)	8/7/2012	07988-006	2.0-3.25	336	ND	ND	ND	ND	ND	336
	W-12 (3.25-4.0)	8/7/2012	07988-007	3.25-4.0	1.75	ND	ND	ND	ND	ND	1.75
	W-12 (4.0-6.0)	8/7/2012	07988-008	4.0-6.0	ND	ND	ND	ND	ND	ND	0
W-12E	W-12E (0-2.0)	4/4/2013	03068-018	0.0-2.0	ND	47.6	ND	ND	ND	ND	47.6
	W-12E (2.0-4.0)	4/4/2013	03068-019	2.0-4.0	ND	58.7	ND	ND	ND	ND	58.7
W-12N	W-12N (0-2.0)	4/4/2013	03068-016	0.0-2.0	ND	184	ND	ND	ND	ND	184
	W-12N (2.0-4.0)	4/4/2013	03068-017	2.0-4.0	ND	132	ND	ND	ND	ND	132
W-12N(1)	W-12N(1) (2.0-4.0)	8/15/2013	07948-004	2.0-4.0	ND	19.2	ND	ND	ND	ND	19.2
W-12S	W-12S (2.0-4.0)	4/4/2013	03068-020	2.0-4.0	ND	36.3	ND	ND	ND	ND	36.3
W-12W	W-12W (2.0-4.0)	4/4/2013	03068-023	2.0-4.0	ND	5.84	ND	ND	ND	ND	5.84
W-13	W-13 (0.0-2.0)	8/7/2012	07988-001	0.0-2.0	ND	677	ND	ND	ND	ND	677
	W-13 (2.0-4.0)	8/7/2012	07988-002	2.0-4.0	ND	58.3	ND	ND	ND	ND	58.3
	W-13 (4.0-4.25)	8/7/2012	07988-003	4.0-4.25	ND	1.4	ND	ND	ND	ND	1.4
	W-13 (4.25-6.0)	8/7/2012	07988-004	4.25-6.0	ND	ND	ND	ND	ND	ND	0
W-13E	W-13E (0-2.0)	4/4/2013	03068-024	0.0-2.0	ND	168	ND	ND	ND	ND	168
	W-13E (2.0-4.0)	4/4/2013	03068-025	2.0-4.0	ND	15	ND	ND	ND	ND	15
W-13S	W-13S (0-2.0)	4/4/2013	03068-029	0.0-2.0	ND	3.02	ND	ND	ND	ND	3.02
	W-13S (2.0-4.0)	4/4/2013	03068-030	2.0-4.0	ND	17.4	ND	ND	ND	ND	17.4
W-13W	W-13W (0-2.0)	4/4/2013	03068-021	0.0-2.0	ND	52.3	ND	ND	ND	ND	52.3
	W-13W (2.0-4.0)	4/4/2013	03068-022	2.0-4.0	ND	4.24	ND	ND	ND	ND	4.24

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CARLSTADT, NJ
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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
W-14	W-14 (0.0-2.0)	7/19/2012	07241-042	0.0-2.0	ND	6.95	ND	ND	ND	ND	6.95
	W-14 (2.0-4.0)	7/19/2012	07241-043	2.0-4.0	ND	1.89	ND	ND	ND	ND	1.89
	W-14 (4.0-6.0)	7/19/2012	07241-044	4.0-6.0	ND	0.213	ND	ND	ND	ND	0.213
W-15	G-3D	6/5/1995	N of G-3	3.0-3.5	ND	ND	ND	ND	NA	NA	0
W-27	W-27 (0.0-2.0)	7/17/2012	07117-051	0.0-2.0	ND	ND	ND	0.265	ND	ND	0.265
	W-27 (2.0-4.0)	7/17/2012	07117-052	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	W-27 (4.0-6.0)	7/17/2012	07117-053	4.0-6.0	ND	ND	ND	ND	ND	ND	0
W-28	W-28 (0.0-2.0)	7/17/2012	07117-048	0.0-2.0	ND	ND	2.94	5.92	ND	ND	8.86
	W-28 (2.0-4.0)	7/17/2012	07117-049	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	W-28 (4.0-6.0)	7/17/2012	07117-050	4.0-6.0	ND	ND	ND	ND	ND	ND	0
W-29	W-29 (0.0-2.0)	7/17/2012	07117-054	0.0-2.0	ND	26.3	ND	12.4	ND	ND	38.7
	W-29 (2.0-3.0)	7/17/2012	07117-055	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	W-29 (3.0-4.0)	7/17/2012	07117-056	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	W-29 (4.0-6.0)	7/17/2012	07117-057	4.0-6.0	ND	ND	ND	ND	ND	ND	0
W-30	W-30 (0.0-2.0)	7/23/2012	07371-001	0.0-2.0	ND	ND	ND	48.1	ND	ND	48.1
	W-30 (2.0-3.25)	7/23/2012	07371-002	2.0-3.25	ND	ND	ND	ND	0.473	ND	0.473
	W-30 (3.25-4.0)	7/23/2012	07371-003	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	W-30 (4.0-6.0)	7/23/2012	07371-004	4.0-6.0	ND	ND	ND	ND	ND	ND	0
W-31	W-31 (0.0-1.0)	8/1/2012	07780-012	0.0-1.0	ND	9.25	ND	4.33	ND	ND	13.58
	W-31 (1.0-2.0)	8/1/2012	07780-013	1.0-2.0	ND	ND	ND	916	ND	ND	916
	W-31 (2.0-4.0)	8/1/2012	07780-014	2.0-4.0	ND	ND	ND	22.7	ND	ND	22.7
	W-31 (4.0-6.0)	8/1/2012	07780-015	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	W-31 (6.0-8.0)	8/1/2012	07780-016	6.0-8.0	ND	ND	ND	ND	ND	ND	0
	W-31 (8.0-10.0)	8/1/2012	07780-017	8.0-10.0	ND	ND	ND	ND	ND	ND	0
W-31E	W-31E (0-2.0)	4/19/2013	03615-003	0.0-2.0	ND	ND	ND	ND	6.9	ND	6.9
W-31N	W-31N (0-2.0)	4/19/2013	03615-002	0.0-2.0	ND	ND	ND	14.5	ND	ND	14.5
W-31S	W-31S (0-2.0)	4/19/2013	03615-004	0.0-2.0	ND	ND	ND	12.9	ND	ND	12.9
W-31W	W-31W (0-2.0)	4/19/2013	03615-001	0.0-2.0	ND	16.9	ND	53.2	ND	ND	70.1
W-32	W-32 (0.0-2.0)	7/23/2012	07371-005	0.0-2.0	ND	8.34	ND	ND	ND	ND	8.34
	W-32 (2.0-4.0)	7/23/2012	07371-006	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	W-32 (4.0-4.75)	7/23/2012	07371-007	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	W-32 (4.75-6.0)	7/23/2012	07371-008	4.75-6.0	ND	ND	ND	ND	ND	ND	0
W-33	W-33 (0.0-2.0)	7/23/2012	07371-009	0.0-2.0	ND	47.4	ND	19.4	ND	ND	66.8
	W-33 (2.0-4.0)	7/23/2012	07371-010	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	W-33 (4.0-5.25)	7/23/2012	07371-011	4.0-5.25	ND	ND	ND	ND	ND	ND	0
	W-33 (5.25-6.0)	7/23/2012	07371-012	5.25-6.0	ND	ND	ND	ND	ND	ND	0
W-34	W-34 (0.0-1.0)	7/23/2012	07371-050	0.0-1.0	ND	32.4	ND	55.6	ND	ND	88
	W-34 (1.0-2.0)	7/23/2012	07371-051	1.0-2.0	ND	ND	ND	ND	ND	ND	0
	W-34 (2.0-3.5)	7/23/2012	07371-052	2.0-3.5	ND	ND	ND	ND	ND	ND	0
	W-34 (3.5-4.0)	7/23/2012	07371-053	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	W-34 (4.0-6.0)	7/23/2012	07371-054	4.0-6.0	ND	ND	ND	ND	ND	ND	0
W-35	W-35 (0.0-2.0)	7/23/2012	07371-046	0.0-2.0	ND	84.8	ND	60.1	ND	ND	144.9
	W-35 (2.0-4.0)	7/23/2012	07371-047	2.0-4.0	ND	ND	ND	ND	38.4	ND	38.4
	W-35 (4.25-4.5)	7/23/2012	07371-048	4.25-4.5	ND	ND	ND	9.38	ND	ND	9.38
	W-35 (4.5-6.0)	7/23/2012	07371-049	4.5-6.0	ND	ND	ND	ND	ND	ND	0
W-36	W-36 (0.0-2.0)	7/23/2012	07371-041	0.0-2.0	ND	361	ND	116	ND	ND	477
	W-36 (2.0-3.0)	7/23/2012	07371-042	2.0-3.0	ND	2650	ND	ND	1050	ND	3700
	W-36 (3.0-3.25)	7/23/2012	07371-043	3.0-3.25	ND	614	ND	ND	299	ND	913
	W-36 (3.25-4.0)	7/23/2012	07371-044	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	W-36 (4.0-6.0)	7/23/2012	07371-045	4.0-6.0	ND	0.099	ND	ND	ND	ND	0.099
W-36E	W-36E (2.0-4.0)	4/19/2013	03615-011	2.0-4.0	ND	18.9	5.76	ND	ND	ND	24.66
W-36N	W-36N (2.0-4.0)	4/19/2013	03615-012	2.0-4.0	ND	30.9	ND	ND	10.6	ND	41.5
W-36S	W-36S (4.0-6.0)	4/23/2013	03698-015	4.0-6.0	ND	ND	ND	14.7	ND	ND	14.7

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W-37	W-37 (0.0-2.0)	7/23/2012	07371-035	0.0-2.0	ND	ND	ND	63	ND	ND	63
	W-37 (2.0-3.0)	7/23/2012	07371-036	2.0-3.0	ND	ND	ND	142	ND	ND	142
	W-37 (3.0-4.0)	7/23/2012	07371-037	3.0-4.0	ND	ND	ND	ND	1400	ND	1400
	W-37 (4.0-5.0)	7/23/2012	07371-038	4.0-5.0	ND	ND	ND	ND	691	ND	691
	W-37 (5.0-6.0)	7/23/2012	07371-039	5.0-6.0	ND	ND	ND	ND	1.25	ND	1.25
	W-37 (6.0-8.0)	7/23/2012	07371-040	6.0-8.0	ND	ND	ND	ND	0.129	ND	0.129
W-37E	W-37E (2.0-4.0)	4/23/2013	03698-013	2.0-4.0	ND	ND	ND	1560	ND	ND	1560
	W-37E (4.0-6.0)	4/23/2013	03698-014	4.0-6.0	ND	ND	ND	6.58	J	ND	6.58
W-38	W-38 (0-2.0)	6/28/2012	06456-086	0.0-2.0	ND	ND	ND	3740	ND	ND	3740
	W-38 (2.0-4.0)	6/28/2012	06456-087	2.0-4.0	ND	ND	ND	712	ND	ND	712
	W-38 (4.0-6.0)	6/28/2012	06456-088	4.0-6.0	ND	ND	ND	ND	159	ND	159
	W-38 (5.5-6.0)	8/13/2012	08194-013	5.0-5.5	ND	ND	ND	ND	ND	ND	0
	W-38 (6.0-6.5)	8/13/2012	08194-014	6.0-6.5	ND	ND	ND	ND	ND	ND	0
W-38N	W-38N (0-2.0)	4/23/2013	03698-016	0.0-2.0	ND	ND	70.6	141	ND	ND	211.6
	W-38N (4.0-6.0)	4/23/2013	03698-017	4.0-6.0	ND	ND	ND	1070	ND	ND	1070
W-38S	W-38S (0-2.0)	4/23/2013	03698-018	0.0-2.0	ND	ND	209	413	ND	ND	622
W-39	W-39 (0-2.0)	6/28/2012	06456-082	0.0-2.0	ND	ND	ND	214	ND	ND	214
	W-39 (2.0-3.0)	6/28/2012	06456-083	2.0-3.0	ND	ND	ND	590	ND	ND	590
	W-39 (3.0-4.0)	6/28/2012	06456-084	3.0-4.0	ND	ND	ND	3400	ND	ND	3400
	W-39 (4.0-6.0)	6/28/2012	06456-085	4.0-6.0	ND	ND	ND	65.2	ND	ND	65.2
	W-39 (5.0-5.5)	8/9/2012	08092-019	5.0-5.5	ND	ND	ND	5.4	ND	ND	5.4
	W-39 (6.0-6.5)	8/9/2012	08092-020	6.0-6.5	ND	0.07	ND	0.065	ND	ND	0.135
	G-20B	11/11/1994	G-20	2.0-2.5	ND	ND	1200	3800	NA	NA	5000
	G-20B(W)	11/21/1995	W of G-20B	2.0-2.5	ND	ND	ND	643	NA	NA	643
	G-20N	6/8/1995	G-20 Native	7.0-7.5	ND	ND	ND	ND	NA	NA	0
W-40	W-40 (0-2.0)	6/28/2012	06456-079	0.0-2.0	ND	ND	ND	1890	ND	ND	1890
	W-40 (2.0-4.0)	6/28/2012	06456-080	2.0-4.0	ND	2610	ND	ND	ND	ND	2610
	W-40 (4.0-6.0)	6/28/2012	06456-081	4.0-6.0	ND	ND	ND	4050	ND	ND	4050
	W-40 (5.0-5.5)	8/9/2012	08092-015	5.0-5.5	ND	ND	ND	5540	ND	ND	5540
	W-40 (5.5-6.0)	8/9/2012	08092-016	5.5-6.0	ND	ND	ND	22.3	ND	ND	22.3
	W-40 (6.0-6.5)	8/9/2012	08092-017	6.0-6.5	ND	ND	ND	64.5	ND	ND	64.5
	W-40 (6.5-7.0)	9/13/2012	09301-028	6.5-7.0	ND	ND	ND	ND	ND	ND	0
	W-40 (7.0-7.5)	8/9/2012	08092-018	7.0-7.5	ND	ND	ND	0.567	ND	ND	0.567
	W-40 (7.0-8.0)	9/13/2012	09301-029	7.0-8.0	ND	ND	ND	ND	ND	ND	0
	W-40 (8.0-9.0)	9/13/2012	09301-030	8.0-9.0	ND	ND	ND	0.055	ND	ND	0.055
W-40N	W-40N (0-2.0)	4/23/2013	03698-019	0.0-2.0	ND	ND	ND	1560	ND	ND	1560
	W-40N (4.0-6.0)	4/23/2013	03698-020	4.0-6.0	ND	ND	ND	14100	ND	ND	14100
	W-40N (6.0-8.0)	4/23/2013	03698-021	6.0-8.0	ND	ND	ND	37.9	ND	ND	37.9
W-40S	W-40S (6.0-8.0)	4/23/2013	03698-022	6.0-8.0	ND	ND	7	11.2	ND	ND	18.2
W-40W	W-40W (0-2.0)	4/23/2013	03698-028	0.0-2.0	ND	ND	ND	651	ND	ND	651
	W-40W (2.0-4.0)	4/23/2013	03698-029	2.0-4.0	ND	ND	ND	8050	ND	ND	8050
	W-40W (4.0-6.0)	4/23/2013	03698-030	4.0-6.0	ND	ND	ND	1990	ND	ND	1990
	W-40W (6.0-8.0)	4/23/2013	03698-031	6.0-8.0	2.15	ND	ND	3.18	ND	ND	5.33
W-41	W-41 (0-2.0)	6/28/2012	06456-076	0.0-2.0	ND	ND	ND	881	ND	ND	881
	W-41 (2.0-4.0)	6/28/2012	06456-077	2.0-4.0	ND	ND	ND	2810	ND	ND	2810
	W-41 (4.0-6.0)	6/28/2012	06456-078	4.0-6.0	ND	ND	ND	3670	ND	ND	3670
	W-41 (5.0-5.5)	8/9/2012	08092-011	5.0-5.5	ND	ND	ND	0.738	ND	ND	0.738
	W-41 (5.5-6.0)	8/9/2012	08092-012	5.5-6.0	ND	ND	ND	0.089	ND	ND	0.089
	W-41 (6.0-6.5)	8/9/2012	08092-013	6.0-6.5	ND	2.69	ND	2.51	ND	ND	5.2
W-41S	W-41S (0-2.0)	4/23/2013	03698-023	0.0-2.0	ND	ND	20.5	20	ND	ND	40.5
	W-41S (2.0-4.0)	4/23/2013	03698-024	2.0-4.0	ND	ND	ND	1300	ND	ND	1300
	W-41S (4.0-6.0)	4/23/2013	03698-025	4.0-6.0	ND	ND	ND	502	ND	ND	502
W-41W	W-41W (0-2.0)	4/23/2013	03698-026	0.0-2.0	ND	ND	546	752	ND	ND	1298
	W-41W (4.0-6.0)	4/23/2013	03698-027	4.0-6.0	ND	ND	ND	1350	ND	ND	1350
W-42	W-42 (0-2.0)	6/28/2012	06456-073	0.0-2.0	ND	ND	59.7	45.3	ND	ND	105
	W-42 (2.0-4.0)	6/28/2012	06456-074	2.0-4.0	ND	ND	39.6	ND	ND	ND	39.6
	W-42 (4.0-6.0)	6/28/2012	06456-075	4.0-6.0	ND	ND	ND	0.187	ND	ND	0.187
X-9	G-2G	5/22/1998	N of G-2	0-0.5	ND	13.3	ND	ND	NA	NA	13.3
	G-2H	5/22/1998	N of G-2	2.5-3	ND	1.73	ND	ND	NA	NA	1.73

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X-11	X-11 (0-2.0)	9/12/2012	09240-036	0.0-2.0	ND	39.6	ND	ND	ND	ND	39.6
	X-11 (2.0-3.5)	9/12/2012	09240-037	2.0-3.5	ND	28	ND	ND	ND	ND	28
	X-11 (3.5-4.0)	9/12/2012	09240-038	3.5-4.0	ND	12	ND	ND	ND	ND	12
	X-11 (4.0-6.0)	9/12/2012	09240-039	4.0-6.0	ND	0.126	ND	ND	ND	ND	0.126
X-12	X-12 (0-2.0)	9/12/2012	09240-040	0.0-2.0	ND	20.9	ND	ND	ND	ND	20.9
	X-12 (2.0-3.0)	9/12/2012	09240-041	2.0-3.0	ND	2.56	ND	ND	ND	ND	2.56
	X-12 (3.0-4.0)	9/12/2012	09240-042	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	X-12 (4.0-6.0)	9/12/2012	09240-043	4.0-6.0	ND	ND	ND	ND	ND	ND	0
X-13	X-13 (0-2.0)	9/12/2012	09240-044	0.0-2.0	ND	279	ND	ND	ND	ND	279
	X-13 (2.0-4.0)	9/12/2012	09240-045	2.0-4.0	ND	1.05	ND	ND	ND	ND	1.05
	X-13 (4.0-4.5)	9/12/2012	09240-046	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	X-13 (4.5-6.0)	9/12/2012	09240-047	4.5-6.0	ND	ND	ND	ND	ND	ND	0
X-13E	X-13E (0-2.0)	4/18/2013	03562-021	0.0-2.0	ND	11.9	ND	ND	ND	ND	11.9
X-13N	X-13N (0-2.0)	4/18/2013	03562-022	0.0-2.0	ND	27	ND	ND	ND	ND	27
X-14	X-14 (0-2.0)	9/12/2012	09240-048	0.0-2.0	ND	119	ND	ND	ND	ND	119
	X-14 (2.0-4.0)	9/12/2012	09240-049	2.0-4.0	ND	49.7	ND	ND	ND	ND	49.7
	X-14 (4.0-5.0)	9/12/2012	09240-050	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	X-14 (5.0-6.0)	9/12/2012	09240-051	5.0-6.0	ND	ND	ND	ND	ND	ND	0
X-14E	X-14E (0-2.0)	4/18/2013	03562-019	0.0-2.0	ND	193	ND	ND	ND	ND	193
X-14S	X-14S (0-2.0)	4/18/2013	03562-018	0.0-2.0	ND	6.81	ND	ND	ND	ND	6.81
X-14W	X-14W (0-2.0)	4/18/2013	03562-017	0.0-2.0	ND	1.14	ND	ND	ND	ND	1.14
X-15	X-15 (0-2.0)	10/22/2012	10687-003	0.0-2.0	ND	5.87	ND	ND	ND	ND	5.87
	X-15 (2.0-4.0)	10/22/2012	10687-004	2.0-4.0	ND	5.82	ND	ND	ND	ND	5.82
	X-15 (4.0-6.0)	10/22/2012	10687-005	4.0-6.0	ND	ND	ND	ND	ND	ND	0
X-16	X-16 (0-2.0)	10/22/2012	10687-006	0.0-2.0	ND	2.72	ND	ND	ND	ND	2.72
	X-16 (2.0-4.0)	10/22/2012	10687-007	2.0-4.0	ND	3.19	ND	ND	ND	ND	3.19
	X-16 (4.0-6.0)	10/22/2012	10687-008	4.0-6.0	ND	ND	ND	ND	ND	ND	0
X-29	X-29 (0.0-2.0)	7/24/2012	07431-011	0.0-2.0	ND	23.4	ND	10	ND	ND	33.4
	X-29 (2.0-3.0)	7/24/2012	07431-012	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	X-29 (3.0-4.0)	7/24/2012	07431-013	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	X-29 (4.0-6.0)	7/24/2012	07431-014	4.0-6.0	ND	ND	ND	ND	ND	ND	0
X-30	X-30 (0.0-2.0)	7/24/2012	07431-067	0.0-2.0	ND	ND	13.2	17.1	ND	ND	30.3
	X-30 (2.0-3.5)	7/24/2012	07431-068	2.0-3.5	ND	ND	ND	ND	ND	ND	0
	X-30 (3.5-4.25)	7/24/2012	07431-069	3.5-4.25	ND	ND	ND	ND	ND	ND	0
	X-30 (4.25-6.0)	7/24/2012	07431-070	4.25-6.0	ND	ND	ND	ND	ND	ND	0
X-31	X-31 (0.0-2.0)	7/24/2012	07431-006	0.0-2.0	ND	33	ND	28.6	ND	ND	61.6
	X-31 (2.0-4.0)	7/24/2012	07431-007	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	X-31 (4.0-4.75)	7/24/2012	07431-008	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	X-31 (4.75-6.0)	7/24/2012	07431-009	4.75-6.0	ND	ND	ND	ND	ND	ND	0
	X-31 (6.0-8.0)	7/24/2012	07431-010	6.0-8.0	ND	ND	ND	ND	ND	ND	0
X-32	X-32 (0.0-2.0)	7/24/2012	07431-001	0.0-2.0	ND	74	ND	ND	ND	ND	74
	X-32 (2.0-3.0)	7/24/2012	07431-002	2.0-3.0	ND	ND	54.7	66.5	ND	ND	121.2
	X-32 (3.0-4.0)	7/24/2012	07431-003	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	X-32 (4.0-4.75)	7/24/2012	07431-004	4.0-4.75	ND	ND	ND	ND	ND	ND	0
	X-32 (4.75-6.0)	7/24/2012	07431-005	4.75-6.0	ND	ND	ND	ND	ND	ND	0
X-33	X-33 (0.0-2.0)	7/23/2012	07371-055	0.0-2.0	ND	58.7	ND	117	ND	ND	175.7
	X-33 (2.0-3.0)	7/23/2012	07371-056	2.0-3.0	ND	ND	ND	ND	9.57	ND	9.57
	X-33 (3.0-4.0)	7/23/2012	07371-057	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	X-33 (4.0-4.5)	7/23/2012	07371-058	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	X-33 (4.5-6.0)	7/23/2012	07371-059	4.5-6.0	ND	ND	ND	ND	ND	ND	0
X-34	X-34 (0.0-2.0)	7/24/2012	07431-015	0.0-2.0	ND	ND	170	ND	107	ND	277
	X-34 (2.0-3.0)	7/24/2012	07431-016	2.0-3.0	ND	ND	19.8	ND	29.6	ND	49.4
	X-34 (3.0-4.0)	7/24/2012	07431-017	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	X-34 (4.0-6.0)	7/24/2012	07431-018	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	PP-3	3/3/1993	G-19	0-0.5	ND	20	ND	50	NA	NA	70
X-35	X-35 (0.0-1.5)	7/24/2012	07431-019	0.0-1.5	ND	30.5	ND	8.91	ND	ND	39.41
	X-35 (2.0-3.25)	7/24/2012	07431-020	2.0-3.25	ND	ND	67.7	ND	31.3	ND	99
	X-35 (3.25-4.0)	7/24/2012	07431-021	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	X-35 (4.0-6.0)	7/24/2012	07431-022	4.0-6.0	ND	ND	ND	ND	ND	ND	0

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
X-36	X-36 (0.0-2.0)	8/1/2012	07780-018	0.0-2.0	ND	97.9	ND	40.1	ND	ND	138
	X-36 (2.0-3.5)	8/1/2012	07780-019	2.0-3.5	ND	ND	ND	188	ND	ND	188
	X-36 (3.5-4.0)	8/1/2012	07780-020	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	X-36 (4.0-6.0)	8/1/2012	07780-021	4.0-6.0	ND	ND	ND	ND	ND	ND	0
X-37	X-37 (0.0-2.0)	7/24/2012	07431-023	0.0-2.0	ND	ND	ND	183	ND	ND	183
	X-37 (2.0-4.0)	7/24/2012	07431-024	2.0-4.0	ND	ND	ND	ND	316	ND	316
	X-37 (4.0-4.75)	7/24/2012	07431-025	4.0-4.75	ND	ND	ND	ND	0.85	ND	0.85
	X-37 (4.75-6.0)	7/24/2012	07431-026	4.75-6.0	ND	ND	ND	ND	0.531	ND	0.531
X-38	X-38 (0-2.0)	6/28/2012	06456-056	0.0-2.0	ND	ND	ND	18400	ND	ND	18400
	X-38 (2.0-4.0)	6/28/2012	06456-057	2.0-4.0	ND	ND	1280	ND	ND	ND	1280
	X-38 (4.0-6.0)	6/28/2012	06456-058	4.0-6.0	ND	ND	ND	22	ND	ND	22
X-38E	X-38E (0-2.0)	4/22/2013	03661-044	0.0-2.0	ND	ND	ND	5340	ND	ND	5340
	X-38E (2.0-4.0)	4/22/2013	03661-045	2.0-4.0	ND	ND	1400	2430	ND	ND	3830
	X-38E (4.0-6.0)	4/22/2013	03661-046	4.0-6.0	ND	ND	ND	0.544	ND	ND	0.544
X-38N	X-38N (0-2.0)	4/23/2013	03698-001	0.0-2.0	ND	ND	ND	534	ND	ND	534
	X-38N (2.0-4.0)	4/23/2013	03698-002	2.0-4.0	ND	ND	395	291	ND	ND	686
	X-38N (4.0-6.0)	4/23/2013	03698-003	4.0-6.0	ND	ND	0.799	ND	ND	ND	0.799
X-38S	X-38S (0-2.0)	4/23/2013	03698-004	0.0-2.0	ND	ND	ND	42.8	ND	ND	42.8
X-39	X-39 (0-2.0)	6/28/2012	06456-059	0.0-2.0	ND	ND	ND	1.66	ND	ND	1.66
	X-39 (2.0-3.0)	6/28/2012	06456-060	2.0-3.0	ND	ND	ND	1910	ND	ND	1910
	X-39 (3.0-4.0)	6/28/2012	06456-061	3.0-4.0	ND	ND	ND	10300	ND	ND	10300
	X-39 (4.0-6.0)	6/28/2012	06456-062	4.0-6.0	ND	ND	ND	11	ND	ND	11
	G-20B(N)	11/21/1995	N of G-20B	2.0-2.5	ND	ND	ND	363	NA	NA	363
X-39E	X-39E (0-2.0)	4/22/2013	03661-040	0.0-2.0	ND	36.3	39.3	73.8	ND	ND	149.4
	X-39E (2.0-4.0)	4/22/2013	03661-041	2.0-4.0	ND	ND	ND	971	ND	ND	971
	X-39E (4.0-6.0)	4/22/2013	03661-042	4.0-6.0	ND	ND	ND	1450	ND	ND	1450
	X-39E (6.0-8.0)	4/22/2013	03661-043	6.0-8.0	ND	ND	ND	4.87	ND	ND	4.87
X-40	X-40 (0-2.0)	6/28/2012	06456-063	0.0-2.0	ND	95.9	ND	99.6	ND	ND	195.5
	X-40 (2.0-3.0)	6/28/2012	06456-064	2.0-3.0	ND	ND	ND	5710	ND	ND	5710
	X-40 (3.0-4.0)	6/28/2012	06456-065	3.0-4.0	ND	ND	ND	19300	ND	ND	19300
	X-40 (4.0-6.0)	6/28/2012	06456-066	4.0-6.0	ND	ND	ND	95.6	ND	ND	95.6
	X-40 (5.0-5.5)	8/9/2012	08092-001	5.0-5.5	ND	ND	ND	0.357	ND	ND	0.357
	X-40 (6.0-6.5)	8/9/2012	08092-002	6.0-6.5	ND	ND	ND	0.315	ND	ND	0.315
	G-20B(E)	11/21/1995	E of G-20B	2.0-2.5	ND	ND	139	117	NA	NA	256
X-40E	X-40E (0-2.0)	4/22/2013	03661-037	0.0-2.0	ND	ND	ND	549	ND	ND	549
	X-40E (2.0-4.0)	4/22/2013	03661-038	2.0-4.0	ND	ND	ND	1970	ND	ND	1970
	X-40E (4.0-6.0)	4/22/2013	03661-039	4.0-6.0	ND	ND	ND	926	ND	ND	926
X-40S	X-40S (4.0-6.0)	4/23/2013	03698-005	4.0-6.0	ND	ND	ND	1650	ND	ND	1650
X-40W	X-40W (0-2.0)	4/23/2013	03698-010	0.0-2.0	ND	ND	188	261	ND	ND	449
	X-40W (4.0-6.0)	4/23/2013	03698-011	4.0-6.0	ND	ND	ND	851	ND	ND	851
	X-40W (6.0-8.0)	4/23/2013	03698-012	6.0-8.0	ND	ND	ND	0.288	ND	ND	0.288
X-41	X-41 (0-2.0)	6/28/2012	06456-067	0.0-2.0	ND	ND	ND	229	ND	ND	229
	X-41 (2.0-4.0)	6/28/2012	06456-068	2.0-4.0	ND	ND	ND	8770	ND	ND	8770
	X-41 (4.0-6.0)	6/28/2012	06456-069	4.0-6.0	ND	ND	ND	2030	ND	ND	2030
	X-41 (5.0-5.5)	8/9/2012	08092-004	5.0-5.5	ND	ND	ND	200	ND	ND	200
	X-41 (5.5-6.0)	8/9/2012	08092-005	5.5-6.0	ND	ND	ND	0.622	ND	ND	0.622
	X-41 (6.0-6.5)	8/9/2012	08092-006	6.0-6.5	ND	ND	ND	0.718	ND	ND	0.718
	G-20C	6/2/1995	E of G-20	0-0.5	1500	ND	ND	ND	NA	NA	1500
	G-20D	6/9/1995	E of G-20	2.0-2.5	1.7	ND	ND	ND	NA	NA	1.7
X-41E	X-41E (2.0-4.0)	4/22/2013	03661-035	2.0-4.0	ND	ND	9.87	21.8	ND	ND	31.67
	X-41E (4.0-6.0)	4/22/2013	03661-036	4.0-6.0	ND	ND	ND	ND	ND	ND	0
X-41S	X-41S (0-2.0)	4/23/2013	03698-006	0.0-2.0	ND	ND	68.2	79.5	ND	ND	147.7
	X-41S (2.0-4.0)	4/23/2013	03698-007	2.0-4.0	ND	ND	ND	78.5	ND	ND	78.5
	X-41S (4.0-6.0)	4/23/2013	03698-008	4.0-6.0	ND	ND	1.22	ND	ND	ND	1.22
X-41W	X-41W (0-2.0)	4/23/2013	03698-009	0.0-2.0	ND	ND	28.7	34.6	ND	ND	63.3

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X-42	X-42 (0-2.0)	6/28/2012	06456-070	0.0-2.0	ND	ND	ND	3.76	ND	ND	3.76
	X-42 (2.0-4.0)	6/28/2012	06456-071	2.0-4.0	ND	ND	ND	16.9	ND	ND	16.9
	X-42 (4.0-6.0)	6/28/2012	06456-072	4.0-6.0	ND	ND	ND	0.12	ND	ND	0.12
Y-12	Y-12 (0-2.0)	10/22/2012	10687-024	0.0-2.0	ND	1.75	ND	ND	ND	ND	1.75
	Y-12 (2.0-4.0)	10/22/2012	10687-025	2.0-4.0	ND	0.062	ND	ND	ND	ND	0.062
	Y-12 (4.0-5.0)	10/22/2012	10687-026	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Y-12 (5.0-6.0)	10/22/2012	10687-027	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Y-13	Y-13 (0-2.0)	10/22/2012	10687-020	0.0-2.0	ND	5.66	ND	ND	ND	ND	5.66
	Y-13 (2.0-4.0)	10/22/2012	10687-021	2.0-4.0	ND	7.95	ND	ND	ND	ND	7.95
	Y-13 (4.0-5.0)	10/22/2012	10687-022	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Y-13 (5.0-6.0)	10/22/2012	10687-023	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Y-14	Y-14 (0-2.0)	10/22/2012	10687-016	0.0-2.0	ND	1.55	ND	0.386	ND	ND	1.936
	Y-14 (2.0-4.0)	10/22/2012	10687-017	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Y-14 (4.0-4.5)	10/22/2012	10687-018	4.0-4.5	ND	ND	ND	ND	ND	ND	0
	Y-14 (4.5-6.0)	10/22/2012	10687-019	4.5-6.0	ND	ND	ND	ND	ND	ND	0
Y-15	Y-15 (0-2.0)	10/22/2012	10687-013	0.0-2.0	ND	221	ND	ND	ND	ND	221
	Y-15 (2.0-4.0)	10/22/2012	10687-014	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Y-15 (4.0-6.0)	10/22/2012	10687-015	4.0-6.0	ND	ND	ND	ND	ND	ND	0
Y-15N	Y-15N (0-2.0)	4/18/2013	03562-020	0.0-2.0	ND	13.2	ND	ND	ND	ND	13.2
Y-15S	Y-15S (0-2.0)	8/15/2013	07948-003	0.0-2.0	ND	32.3	ND	ND	ND	ND	32.3
Y-16	Y-16 (0-2.0)	10/22/2012	10687-009	0.0-2.0	ND	5.14	ND	1.22	ND	ND	6.36
	Y-16 (2.0-3.0)	10/22/2012	10687-010	2.0-3.0	ND	0.512	ND	0.641	ND	ND	1.153
	Y-16 (3.0-4.0)	10/22/2012	10687-011	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	Y-16 (4.0-6.0)	10/22/2012	10687-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
Y-26	G-9A	11/11/1994	G-9	0.25-0.75	ND	ND	ND	ND	NA	NA	0
	G-9B	11/11/1994	G-9	3.5-4.0	ND	ND	ND	ND	NA	NA	0
Y-28	Y-28 (0-2.0)	4/3/2013	02986-016	0.0-2.0	ND	2.34	ND	ND	ND	ND	2.34
Y-29	Y-29 (0-2.0)	10/18/2012	10574-042	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	Y-29 (2.0-2.5)	10/18/2012	10574-043	2.0-2.5	ND	ND	ND	ND	ND	ND	0
	Y-29 (2.5-4.0)	10/18/2012	10574-044	2.5-4.0	ND	ND	ND	ND	ND	ND	0
	Y-29 (4.0-6.0)	10/18/2012	10574-045	4.0-6.0	ND	ND	ND	ND	ND	ND	0
Y-30	Y-30 (0-1.0)	9/13/2012	09301-013	0.0-1.0	ND	236	ND	ND	ND	ND	236
	Y-30 (1.0-2.0)	9/13/2012	09301-014	1.0-2.0	ND	ND	ND	ND	ND	ND	0
	Y-30 (2.0-4.0)	9/13/2012	09301-015	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Y-30 (4.0-5.0)	9/13/2012	09301-016	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Y-30 (5.0-6.0)	9/13/2012	09301-017	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Y-30E	Y-30E (0-2.0)	5/15/2013	04537-007	0.0-2.0	ND	1.76	ND	0.958	ND	ND	2.718
Y-30N	Y-30N (0-2.0)	5/15/2013	04537-008	0.0-2.0	ND	0.324	ND	0.66	ND	ND	0.984
Y-31	Y-31 (0-2.0)	9/13/2012	09301-009	0.0-2.0	ND	16.7	ND	35.8	ND	ND	52.5
	Y-31 (2.0-4.0)	9/13/2012	09301-010	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Y-31 (4.0-5.0)	9/13/2012	09301-011	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Y-31 (5.0-6.0)	9/13/2012	09301-012	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Y-32	Y-32 (0-2.0)	9/13/2012	09301-005	0.0-2.0	ND	30	ND	29.5	ND	ND	59.5
	Y-32 (2.0-4.0)	9/13/2012	09301-006	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Y-32 (4.0-5.0)	9/13/2012	09301-007	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Y-32 (5.0-6.0)	9/13/2012	09301-008	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Y-33	Y-33 (0-2.0)	8/10/2012	08167-024	0.0-2.0	ND	ND	ND	1950	ND	ND	1950
	Y-33 (2.0-2.5)	8/10/2012	08167-025	2.0-2.5	ND	ND	88.7	ND	109	ND	197.7
	Y-33 (2.5-3.0)	8/10/2012	08167-026	2.5-3.0	ND	ND	ND	ND	ND	ND	0
	Y-33 (3.25-4.0)	8/10/2012	08167-027	3.25-4.0	ND	0.471	ND	ND	ND	ND	0.471
	Y-33 (4.25-6.0)	8/10/2012	08167-028	4.25-6.0	ND	ND	ND	ND	ND	ND	0
	G-19B	11/14/1994	G-19	3.0-3.5	ND	ND	ND	3.3	NA	NA	3.3
Y-33E	Y-33E (0-2.0)	5/15/2013	04537-010	0.0-2.0	ND	12.3	ND	28.5	ND	ND	40.8
	Y-33E (2.0-4.0)	8/21/2013	08149-009	2.0-4.0	ND	38.8	ND	156	ND	ND	194.8
Y-33N	Y-33N (0-2.0)	4/19/2013	03615-005	0.0-2.0	ND	ND	ND	ND	13.2	ND	13.2
Y-33S	Y-33S (0-2.0)	5/15/2013	04537-009	0.0-2.0	ND	33.8	ND	196	ND	ND	229.8

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Y-33W	Y-33W (0-2.0)	4/19/2013	03615-006	0.0-2.0	ND	ND	ND	ND	ND	ND	0
Y-37	Y-37 (0.0-2.0)	7/24/2012	07431-027	0.0-2.0	ND	ND	ND	1660	ND	ND	1660
	Y-37 (2.0-2.75)	7/24/2012	07431-028	2.0-2.75	ND	ND	54.7	90.5	ND	ND	145.2
	Y-37 (2.75-4.0)	7/24/2012	07431-029	2.75-4.0	ND	ND	ND	1280	ND	ND	1280
	Y-37 (4.0-6.0)	7/24/2012	07431-030	4.0-6.0	ND	ND	1.1	3.15	ND	ND	4.25
Y-37S	Y-37S (0-2.0)	4/19/2013	03615-007	0.0-2.0	ND	ND	93.1	85.7	ND	ND	178.8
	Y-37S (2.0-4.0)	4/19/2013	03615-008	2.0-4.0	ND	ND	54.5	ND	80.7	ND	135.2
Y-37W	Y-37W (0-2.0)	4/19/2013	03615-009	0.0-2.0	ND	ND	ND	20.6	ND	ND	20.6
	Y-37W (2.0-4.0)	4/19/2013	03615-010	2.0-4.0	ND	ND	82.2	71.1	ND	ND	153.3
Y-38	Y-38 (0-2.0)	6/28/2012	06456-053	0.0-2.0	ND	4.3	ND	5.26	ND	ND	9.56
	Y-38 (2.0-4.0)	6/28/2012	06456-054	2.0-4.0	ND	ND	ND	0.798	ND	ND	0.798
	Y-38 (4.0-6.0)	6/28/2012	06456-055	4.0-6.0	ND	ND	ND	0.43	ND	ND	0.43
Y-39	Y-39 (0-2.0)	6/27/2012	06456-048	0.0-2.0	ND	62.4	ND	56.1	ND	ND	118.5
	Y-39 (2.0-4.0)	6/27/2012	06456-049	2.0-4.0	ND	ND	ND	132	ND	ND	132
	Y-39 (4.0-5.0)	6/27/2012	06456-050	4.0-5.0	ND	ND	ND	1140	ND	ND	1140
	Y-39 (5.0-6.0)	6/28/2012	06456-051	5.0-6.0	ND	ND	ND	2570	ND	ND	2570
	Y-39 (6.0-7.0)	6/28/2012	06456-052	6.0-7.0	ND	ND	ND	935	ND	ND	935
	Y-39 (6.5-7.0)	8/13/2012	08194-016	6.5-7.0	ND	ND	ND	ND	ND	ND	0
	Y-39 (7.0-7.5)	8/13/2012	08194-017	7.0-7.5	ND	ND	ND	0.203	ND	ND	0.203
	Y-39 (8.0-8.5)	8/13/2012	08194-018	8.0-8.5	ND	ND	ND	0.225	ND	ND	0.225
Y-39E	Y-39E (0-2.0)	4/22/2013	03661-020	0.0-2.0	ND	ND	ND	1150	ND	ND	1150
	Y-39E (2.0-4.0)	4/22/2013	03661-021	2.0-4.0	ND	89.9	ND	124	ND	ND	213.9
	Y-39E (6.0-8.0)	4/22/2013	03661-022	6.0-8.0	ND	0.164	ND	0.185	ND	ND	0.349
Y-39N	Y-39N (0-2.0)	4/22/2013	03661-024	0.0-2.0	ND	25.5	ND	38	ND	ND	63.5
	Y-39N (2.0-4.0)	4/22/2013	03661-025	2.0-4.0	ND	2.5	ND	12.2	ND	ND	14.7
	Y-39N (4.0-6.0)	4/22/2013	03661-026	4.0-6.0	ND	ND	ND	231	ND	ND	231
	Y-39N (6.0-8.0)	4/22/2013	03661-027	6.0-8.0	ND	ND	ND	19.1	ND	ND	19.1
Y-39S	Y-39S (0-2.0)	4/22/2013	03661-028	0.0-2.0	ND	ND	ND	261	ND	ND	261
	Y-39S (5.0-6.0)	4/22/2013	03661-029	5.0-6.0	ND	ND	ND	3010	ND	ND	3010
	Y-39S (6.0-7.0)	4/22/2013	03661-030	6.0-7.0	ND	ND	ND	18.2	ND	ND	18.2
	Y-39S (7.0-8.0)	4/22/2013	03661-031	7.0-8.0	ND	ND	ND	ND	ND	ND	0
Y-40	Y-40 (0-2.0)	6/27/2012	06456-045	0.0-2.0	ND	6.96	ND	20.4	ND	ND	27.36
	Y-40 (2.0-4.0)	6/27/2012	06456-046	2.0-4.0	ND	ND	ND	416	ND	ND	416
	Y-40 (4.0-6.0)	6/27/2012	06456-047	4.0-6.0	ND	ND	ND	1170	ND	ND	1170
	Y-40 (5.0-5.5)	8/10/2012	08167-001	5.0-5.5	ND	ND	ND	367	ND	ND	367
	Y-40 (5.5-6.0)	8/10/2012	08167-002	5.5-6.0	ND	ND	ND	0.286	ND	ND	0.286
	Y-40 (6.0-6.5)	8/10/2012	08167-003	6.0-6.5	ND	ND	ND	ND	ND	ND	0
Y-40E	Y-40E (2.0-4.0)	4/22/2013	03661-023	2.0-4.0	ND	ND	ND	58.4	ND	ND	58.4
Y-40S	Y-40S (0-2.0)	4/22/2013	03661-032	0.0-2.0	ND	ND	ND	763	ND	ND	763
	Y-40S (2.0-4.0)	4/22/2013	03661-033	2.0-4.0	ND	ND	ND	16.9	ND	ND	16.9
	Y-40S (4.0-6.0)	4/22/2013	03661-034	4.0-6.0	ND	10.6	ND	9.27	ND	ND	19.87
Y-41	Y-41 (0-2.0)	6/27/2012	06456-041	0.0-2.0	ND	89.1	ND	90.7	ND	ND	179.8
	Y-41 (2.0-4.0)	6/27/2012	06456-042	2.0-4.0	ND	ND	ND	16.6	ND	ND	16.6
	Y-41 (4.0-6.0)	6/27/2012	06456-043	4.0-6.0	ND	0.594	ND	ND	ND	ND	0.594
Y-15E	Y-15E (0-2.0)	5/15/2013	04537-001	0.0-2.0	ND	51.5	ND	ND	ND	ND	51.5
Y-15W	Y-15W (0-2.0)	5/15/2013	04537-002	0.0-2.0	ND	73.3	ND	ND	ND	ND	73.3
Z-11	G-3C-	11/29/2001	G-3	3.5-4.0'	ND	35	ND	ND	NA	NA	35
	G-3D-	11/29/2001	G-3	3.0-3.5'	ND	ND	ND	ND	NA	NA	0
Z-14	Z-14 (0-2.0)	4/3/2013	02986-013	0.0-2.0	ND	0.729	ND	ND	0.072	ND	0.801
Z-15	Z-15 (0-2.0)	4/3/2013	02986-012	0.0-2.0	ND	0.913	ND	0.453	ND	ND	1.366
Z-16	Z-16 (0-2.0)	4/8/2013	03153-018	0.0-2.0	ND	45.2	ND	ND	ND	ND	45.2
Z-18	G-4A	11/10/1994	G-4	0.5-1.0	ND	1.2	ND	ND	NA	NA	1.2
	G-4B	11/10/1994	G-4	2.5-3.0	ND	18	ND	ND	NA	NA	18
Z-28	Z-28 (0-2.0)	4/3/2013	02986-017	0.0-2.0	ND	2.76	ND	ND	1.43	ND	4.19

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Z-28E	Z-28E (0-2.0)	8/16/2013	08025-012	0.0-2.0	ND	0.227	ND	ND	ND	ND	0.227
Z-29	Z-29 (0-2.0)	10/18/2012	10574-046	0.0-2.0	ND	74.9	ND	ND	ND	ND	74.9
	Z-29 (2.0-4.0)	10/18/2012	10574-047	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	Z-29 (4.0-5.0)	10/18/2012	10574-048	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Z-29 (5.0-6.0)	10/18/2012	10574-049	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Z-29S	Z-29S (0-2.0)	5/15/2013	04537-005	0.0-2.0	ND	18.5	ND	17.3	ND	ND	35.8
Z-29W	Z-29W (0-2.0)	5/15/2013	04537-006	0.0-2.0	ND	9.36	ND	19.7	ND	ND	29.06
Z-30	Z-30 (0-2.0)	9/13/2012	09301-018	0.0-2.0	ND	3.34	ND	0.719	ND	ND	4.059
	Z-30 (2.0-4.0)	9/13/2012	09301-019	2.0-4.0	ND	0.106	ND	ND	ND	ND	0.106
	Z-30 (4.0-5.0)	9/13/2012	09301-020	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Z-30 (5.0-6.0)	9/13/2012	09301-021	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	Z-30 (6.0-8.0)	9/13/2012	09301-022	6.0-8.0	ND	ND	ND	ND	ND	ND	0
Z-31	Z-31 (0-2.0)	9/13/2012	09301-023	0.0-2.0	ND	2.11	ND	2.07	ND	ND	4.18
	Z-31 (2.0-4.0)	9/13/2012	09301-024	2.0-4.0	ND	0.579	ND	ND	ND	ND	0.579
	Z-31 (4.0-5.0)	9/13/2012	09301-025	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Z-31 (5.0-5.25)	9/13/2012	09301-026	5.0-5.25	ND	ND	ND	ND	ND	ND	0
	Z-31 (5.25-6.0)	9/13/2012	09301-027	5.25-6.0	ND	ND	ND	ND	ND	ND	0
Z-32	Z-32 (0-2.0)	9/13/2012	09301-044	0.0-2.0	ND	61.9	ND	ND	ND	ND	61.9
	Z-32 (2.0-4.0)	9/13/2012	09301-045	2.0-4.0	ND	13.5	ND	5.03	ND	ND	18.53
	Z-32 (4.0-5.0)	9/13/2012	09301-046	4.0-5.0	ND	ND	ND	ND	0.242	ND	0.242
	Z-32 (5.0-5.5)	9/13/2012	09301-047	5.0-5.25	ND	3.76	ND	1.52	ND	ND	5.28
	Z-32 (5.5-6.0)	9/13/2012	09301-048	5.25-6.0	ND	ND	ND	ND	ND	ND	0
Z-32N	Z-32N (0-2.0)	8/16/2013	08025-007	0.0-2.0	ND	ND	ND	1.44	ND	ND	1.44
Z-32S	Z-32S (0-2.0)	8/16/2013	08025-009	0.0-2.0	ND	7.31	ND	2.65	ND	ND	9.96
Z-38	Z-38 (0.0-2.0)	6/27/2012	06456-029	0.0-2.0	ND	68.7	ND	17.9	ND	ND	86.6
	Z-38 (2.0-4.0)	6/27/2012	06456-030	2.0-4.0	ND	61.6	ND	ND	ND	ND	61.6
	Z-38 (4.0-6.0)	6/27/2012	06456-031	4.0-6.0	ND	1780	ND	ND	ND	ND	1780
	Z-38 (5.5-6.0)	8/10/2012	08167-011	5.5-6.0	ND	ND	ND	ND	ND	ND	0
	Z-38 (6.0-6.5)	8/10/2012	08167-012	6.0-6.5	ND	ND	ND	ND	ND	ND	0
Z-38E	Z-38E (0-2.0)	5/9/2013	04329-024	0.0-2.0	ND	127	ND	ND	ND	ND	127
	Z-38E (2.0-4.0)	5/9/2013	04329-025	2.0-4.0	ND	233	ND	ND	ND	ND	233
	Z-38E (4.0-6.0)	5/9/2013	04329-026	4.0-6.0	ND	104	ND	ND	ND	ND	104
Z-38W	Z-38W (0-2.0)	4/22/2013	03661-004	0.0-2.0	ND	55	ND	146	ND	ND	201
	Z-38W (2.0-4.0)	4/22/2013	03661-005	2.0-4.0	ND	83.8	ND	122	ND	ND	205.8
	Z-38W (4.0-6.0)	4/22/2013	03661-006	4.0-6.0	ND	1.29	ND	1.19	ND	ND	2.48
Z-39	Z-39 (0.0-2.0)	6/27/2012	06456-032	0.0-2.0	ND	1.21	ND	0.902	ND	ND	2.112
	Z-39 (2.0-4.0)	6/27/2012	06456-033	2.0-4.0	ND	23.5	ND	3.7	ND	ND	27.2
	Z-39 (4.0-6.0)	6/27/2012	06456-034	4.0-6.0	ND	5350	ND	ND	ND	ND	5350
	Z-39 (5.5-6.0)	8/13/2012	08194-020	5.5-6.0	ND	6.59	ND	ND	ND	ND	6.59
	Z-39 (6.0-6.5)	8/13/2012	08194-021	6.0-6.5	ND	1.89	ND	ND	ND	ND	1.89
Z-39E	Z-39E (4.0-6.0)	4/22/2013	03661-009	4.0-6.0	0.169	ND	ND	ND	ND	ND	0.169
Z-39N	Z-39N (0-2.0)	4/22/2013	03661-007	0.0-2.0	ND	73.6	ND	35.5	ND	ND	109.1
	Z-39N (2.0-4.0)	4/22/2013	03661-008	2.0-4.0	ND	839	ND	ND	ND	ND	839
Z-40	Z-40 (0-2.0)	6/27/2012	06456-035	0.0-2.0	ND	1.1	ND	0.879	ND	ND	1.979
	Z-40 (2.0-4.0)	6/27/2012	06456-036	2.0-4.0	ND	0.226	ND	0.572	ND	ND	0.798
	Z-40 (4.0-6.0)	6/27/2012	06456-037	4.0-6.0	ND	755	ND	ND	ND	ND	755
	Z-40 (5.5-6.0)	8/10/2012	08167-008	5.5-6.0	ND	ND	ND	ND	ND	ND	0
	Z-40 (6.0-6.5)	8/10/2012	08167-009	6.0-6.5	ND	ND	ND	ND	ND	ND	0
Z-40E	Z-40E (0-2.0)	4/22/2013	03661-010	0.0-2.0	ND	145	ND	ND	ND	ND	145
	Z-40E (4.0-5.0)	4/22/2013	03661-011	4.0-5.0	1.1	ND	ND	ND	ND	ND	1.1
	Z-40E (5.0-6.0)	4/22/2013	03661-012	5.0-6.0	ND	ND	ND	ND	ND	ND	0
Z-40S	Z-40S (0-2.0)	4/22/2013	03661-013	0.0-2.0	ND	23.2	22.3	13.1	ND	ND	58.6
	Z-40S (2.0-4.0)	4/22/2013	03661-014	2.0-4.0	ND	97.7	ND	23	ND	ND	120.7
	Z-40S (4.0-5.0)	4/22/2013	03661-015	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	Z-40S (5.0-6.0)	4/22/2013	03661-016	5.0-6.0	ND	0.156	ND	0.063	ND	ND	0.219

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Z-41	Z-41 (0-2.0)	6/27/2012	06456-038	0.0-2.0	ND	38.7	ND	31	ND	ND	69.7
	Z-41 (2.0-4.0)	6/27/2012	06456-039	2.0-4.0	ND	619	ND	ND	ND	ND	619
	Z-41 (4.0-6.0)	6/27/2012	06456-040	4.0-6.0	ND	76.2	ND	ND	ND	ND	76.2
	Z-41 (5.5-6.0)	8/10/2012	08167-005	5.5-6.0	ND	0.288	ND	ND	ND	ND	0.288
	Z-41 (6.0-6.5)	8/10/2012	08167-006	6.0-6.5	ND	ND	ND	ND	ND	ND	0
Z-41W	Z-41W (0-2.0)	4/22/2013	03661-017	0.0-2.0	ND	8.41	ND	16.1	ND	ND	24.51
	Z-41W (2.0-4.0)	4/22/2013	03661-018	2.0-4.0	ND	69.8	ND	55.2	ND	ND	125
	Z-41W (4.0-6.0)	4/22/2013	03661-019	4.0-6.0	ND	1.07	ND	1.11	ND	ND	2.18
AA-14	PP-7	3/3/1993	N of G-3	0-0.5	ND	31	ND	2.1	NA	NA	33.1
AA-28	AA-28 (0-2.0)	4/3/2013	02986-018	0.0-2.0	ND	5.73	ND	ND	0.765	ND	6.495
AA-29	AA-29 (0-2.0)	4/3/2013	02986-019	0.0-2.0	ND	16.1	ND	ND	ND	ND	16.1
AA-30	AA-30 (0-2.0)	4/3/2013	02986-020	0.0-2.0	ND	75.1	ND	ND	7.65	ND	82.75
AA-30N	AA-30N (0-2.0)	8/16/2013	08025-011	0.0-2.0	ND	0.106	ND	ND	ND	ND	0.106
AA-31	AA-31 (0-2.0)	5/15/2013	04537-003	0.0-2.0	ND	0.338	ND	0.459	ND	ND	0.797
AA-31W	AA-31W (0-2.0)	8/16/2013	08025-008	0.0-2.0	ND	ND	0.14	0.082	ND	ND	0.222
AA-38	AA-38 (0.0-2.0)	6/27/2012	06456-026	0.0-2.0	ND	5.72	ND	2.68	ND	ND	8.4
	AA-38 (2.0-4.0)	6/27/2012	06456-027	2.0-4.0	ND	ND	ND	0.911	ND	ND	0.911
	AA-38 (4.0-6.0)	6/27/2012	06456-028	4.0-6.0	ND	ND	ND	ND	ND	ND	0
AA-39	AA-39 (0.0-2.0)	6/27/2012	06456-023	0.0-2.0	ND	1.55	ND	ND	ND	ND	1.55
	AA-39 (2.0-4.0)	6/27/2012	06456-024	2.0-4.0	ND	1.6	ND	ND	ND	ND	1.6
	AA-39 (4.0-6.0)	6/27/2012	06456-025	4.0-6.0	ND	3.8	ND	2.42	ND	ND	6.22
AA-40	AA-40 (0.0-1.5)	6/27/2012	06456-019	0.0-1.5	ND	65.3	ND	ND	ND	ND	65.3
	AA-40 (1.5-2.0)	6/27/2012	06456-020	1.5-2.0	ND	9.44	ND	ND	ND	ND	9.44
	AA-40 (2.0-4.0)	6/27/2012	06456-021	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	AA-40 (4.0-6.0)	6/27/2012	06456-022	4.0-6.0	ND	1.75	ND	ND	ND	ND	1.75
AA-41	VI-16	6/6/1995	W of T2-G5	0-0.5	ND	140	57	ND	NA	NA	197
BB-23	G-5A	11/10/1994	G-5	1.0-1.5	ND	ND	ND	ND	NA	NA	0
	G-5B	11/10/1994	G-5	3.5-4.0	ND	ND	ND	ND	NA	NA	0
BB-29	BB-29 (0-2.0)	5/15/2013	04537-004	0.0-2.0	ND	0.116	ND	0.078	ND	ND	0.194
	G-8A	11/11/1994	G-8	1.0-1.5	ND	ND	0.1	0.22	NA	NA	0.32
	G-8B	11/11/1994	G-8	4.0-4.5	ND	ND	ND	ND	NA	NA	0
BB-30	BB-30 (0-2.0)	5/9/2013	04329-001	0.0-2.0	ND	1.77	ND	0.444	ND	ND	2.214
BB-31	BB-31 (0-2.0)	5/9/2013	04329-002	0.0-2.0	ND	50.5	ND	15.5	ND	ND	66
BB-31N	BB-31N (0-2.0)	8/16/2013	08025-010	0.0-2.0	ND	0.364	ND	ND	0.132	ND	0.496
BB-37	BB-37 (0.0-2.0)	6/27/2012	06456-010	0.0-2.0	ND	127	ND	ND	ND	ND	127
	BB-37 (2.0-4.0)	6/27/2012	06456-011	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	BB-37 (4.0-6.0)	6/27/2012	06456-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
BB-37E	BB-37E (2.0-4.0)	5/9/2013	04329-018	2.0-4.0	ND	28.4	ND	ND	ND	ND	28.4
BB-38	BB-38 (0.0-2.0)	6/27/2012	06456-013	0.0-2.0	ND	107	ND	21	ND	ND	128
	BB-38 (2.0-4.0)	6/27/2012	06456-014	2.0-4.0	ND	0.536	ND	ND	ND	ND	0.536
	BB-38 (4.0-6.0)	6/27/2012	06456-015	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	PP-4	3/3/1993	E of G-19	0-0.5	ND	46	ND	3	NA	NA	49
BB-38S	BB-38S (0-2.0)	5/9/2013	04329-023	0.0-2.0	ND	110	ND	9.97	ND	ND	119.97
BB-38W	BB-38W (0-2.0)	5/15/2013	04537-011	0.0-2.0	ND	1.32	ND	0.57	ND	ND	1.89
BB-39	BB-39 (0.0-2.0)	6/27/2012	06456-016	0.0-2.0	ND	2.68	ND	1.02	ND	ND	3.7
	BB-39 (2.0-4.0)	6/27/2012	06456-017	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	BB-39 (4.0-6.0)	6/27/2012	06456-018	4.0-6.0	ND	0.113	ND	ND	ND	ND	0.113
CC-18	PP-6	3/3/1993	N of G-4	0-0.5	ND	4	ND	ND	NA	NA	4
CC-26	CC-26 (0.0-2.0)	7/5/2012	06684-007	0.0-2.0	ND	9.14	ND	2.39	ND	ND	11.53
	CC-26 (2.0-4.0)	7/5/2012	06684-008	2.0-4.0	ND	0.977	ND	ND	ND	ND	0.977
	CC-26 (4.0-6.0)	7/5/2012	06684-009	4.0-6.0	ND	0.843	ND	ND	ND	ND	0.843

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ARSYNCO, INC
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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
CC-27	CC-27 (0.0-2.0)	7/5/2012	06684-004	0.0-2.0	ND	34	ND	ND	ND	ND	34
	CC-27 (2.0-4.0)	7/5/2012	06684-005	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	CC-27 (4.0-6.0)	7/5/2012	06684-006	4.0-6.0	ND	ND	ND	ND	ND	ND	0
CC-28	CC-28 (0.0-2.0)	7/3/2012	06634-026	0.0-2.0	ND	13.8	ND	ND	ND	ND	13.8
	CC-28 (2.0-4.0)	7/3/2012	06634-027	2.0-4.0	ND	ND	8.84	9.89	ND	ND	18.73
	CC-28 (4.0-6.0)	7/3/2012	06634-028	4.0-6.0	ND	ND	ND	ND	ND	ND	0
CC-29	CC-29 (0.0-2.0)	7/3/2012	06634-022	0.0-2.0	ND	42.8	ND	ND	ND	ND	42.8
	CC-29 (2.0-3.5)	7/3/2012	06634-023	2.0-3.5	ND	ND	2.09	4.23	ND	ND	6.32
	CC-29 (3.5-4.0)	7/3/2012	06634-024	3.5-4.0	ND	ND	ND	0.537	ND	ND	0.537
	CC-29 (4.0-6.0)	7/3/2012	06634-025	4.0-6.0	ND	0.094	J ND	0.153	ND	ND	0.247
CC-30	CC-30 (0.0-2.0)	8/8/2012	08042-001	0.0-2.0	ND	1.56	ND	2.59	ND	ND	4.15
	CC-30 (2.0-4.0)	8/8/2012	08042-002	2.0-4.0	ND	1.81	ND	6.6	ND	ND	8.41
	CC-30 (4.0-6.0)	8/8/2012	08042-003	4.0-6.0	ND	ND	ND	ND	ND	ND	0
CC-37	CC-37 (0.0-2.0)	6/27/2012	06456-004	0.0-2.0	ND	60.5	ND	ND	ND	ND	60.5
	CC-37 (2.0-4.0)	6/27/2012	06456-005	2.0-4.0	ND	79.3	ND	ND	ND	ND	79.3
	CC-37 (4.0-6.0)	6/27/2012	06456-006	4.0-6.0	ND	1.34	ND	ND	ND	ND	1.34
CC-37E	CC-37E (0-2.0)	5/9/2013	04329-014	0.0-2.0	ND	98.7	ND	ND	ND	ND	98.7
	CC-37E (2.0-4.0)	5/9/2013	04329-015	2.0-4.0	ND	0.04	J ND	ND	ND	ND	0.04
CC-37N	CC-37N (0-2.0)	5/9/2013	04329-016	0.0-2.0	ND	80	ND	5.94	ND	ND	85.94
	CC-37N (2.0-4.0)	5/9/2013	04329-017	2.0-4.0	ND	2	ND	ND	ND	ND	2
CC-37S	CC-37S (2.0-4.0)	5/9/2013	04329-019	2.0-4.0	ND	0.027	J ND	ND	ND	ND	0.027
CC-38	CC-38 (0.0-2.0)	6/27/2012	06456-007	0.0-2.0	ND	62	ND	ND	ND	ND	62
	CC-38 (2.0-4.0)	6/27/2012	06456-008	2.0-4.0	ND	1.01	ND	0.442	ND	ND	1.452
	CC-38 (4.0-6.0)	6/27/2012	06456-009	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-19C	6/2/1995	E of G-19	0-0.5	ND	53	16	5.5	NA	NA	74.5
	G-19D	6/9/1995	E of G-19	2.0-2.5	0.56	ND	ND	ND	NA	NA	0.56
CC-38S	CC-38S (0-2.0)	5/9/2013	04329-020	0.0-2.0	ND	78.9	ND	ND	ND	ND	78.9
CC-39W	CC-39W (0-2.0)	5/9/2013	04329-021	0.0-2.0	ND	25.2	ND	2.08	ND	ND	27.28
	CC-39W (2.0-4.0)	5/9/2013	04329-022	2.0-4.0	ND	3.92	ND	ND	ND	ND	3.92
DD-21	DD-21 (0-2.0)	10/22/2012	10687-036	0.0-2.0	ND	0.645	J 0.757	ND	ND	ND	1.402
	DD-21 (2.0-4.0)	10/22/2012	10687-037	2.0-4.0	ND	0.046	ND	ND	ND	ND	0.046
	DD-21 (4.0-5.0)	10/22/2012	10687-038	4.0-5.0	ND	0.208	ND	ND	ND	ND	0.208
	DD-21 (5.0-6.0)	10/22/2012	10687-039	5.0-6.0	ND	ND	ND	ND	ND	ND	0
DD-22	DD-22 (0-2.0)	10/22/2012	10687-031	0.0-2.0	ND	2.79	2.4	ND	ND	ND	5.19
	DD-22 (2.0-4.0)	10/22/2012	10687-032	2.0-4.0	ND	0.597	0.49	ND	ND	ND	1.087
	DD-22 (4.0-4.5)	10/22/2012	10687-033	4.0-4.5	ND	1.64	0.861	ND	ND	ND	2.501
	DD-22 (4.5-5.0)	10/22/2012	10687-034	4.5-5.0	ND	ND	ND	ND	ND	ND	0
	DD-22 (5.0-6.0)	10/22/2012	10687-035	5.0-6.0	ND	ND	ND	ND	ND	ND	0
DD-23	DD-23 (0-2.0)	10/22/2012	10687-028	0.0-2.0	ND	ND	0.2	ND	ND	ND	0.2
	DD-23 (2.0-4.0)	10/22/2012	10687-029	2.0-4.0	ND	40	ND	ND	ND	ND	40
	DD-23 (4.0-6.0)	10/22/2012	10687-030	4.0-6.0	ND	ND	ND	ND	ND	ND	0
DD-25	DD-25 (0.0-2.0)	7/5/2012	06684-033	0.0-2.0	ND	2.75	ND	ND	ND	ND	2.75
	DD-25 (2.0-4.0)	7/5/2012	06684-034	2.0-4.0	ND	0.975	ND	ND	ND	ND	0.975
	DD-25 (4.0-6.0)	7/5/2012	06684-035	4.0-6.0	ND	6.7	ND	ND	ND	ND	6.7
	DD-25 (6.0-8.0)	7/5/2012	06684-036	6.0-8.0	ND	0.143	ND	ND	ND	ND	0.143
DD-26	DD-26 (0.0-2.0)	7/5/2012	06684-010	0.0-2.0	ND	6.37	ND	12.9	ND	ND	19.27
	DD-26 (2.0-4.0)	7/5/2012	06684-011	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	DD-26 (4.0-6.0)	7/5/2012	06684-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
DD-27	DD-27 (0.0-2.0)	7/5/2012	06684-001	0.0-2.0	ND	4.19	ND	ND	ND	ND	4.19
	DD-27 (2.0-4.0)	7/5/2012	06684-002	2.0-4.0	ND	61.9	ND	36.9	ND	ND	98.8
	DD-27 (4.0-6.0)	7/5/2012	06684-003	4.0-6.0	ND	4.71	ND	ND	ND	ND	4.71
DD-27E	DD-27E (0-2.0)	4/18/2013	03562-033	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	DD-27E (2.0-4.0)	4/18/2013	03562-034	2.0-4.0	ND	ND	ND	ND	330	ND	330
DD-27N	DD-27N (2.0-4.0)	4/18/2013	03562-035	2.0-4.0	ND	11.1	ND	ND	3.36	ND	14.46
DD-27W	DD-27W (2.0-4.0)	4/18/2013	03562-036	2.0-4.0	ND	10.6	ND	ND	ND	ND	10.6

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DD-28	DD-28 (0.0-2.0)	7/3/2012	06634-029	0.0-2.0	ND	58.8	ND	57.7	ND	ND	116.5
	DD-28 (2.0-2.75)	7/3/2012	06634-030	2.0-2.75	ND	ND	ND	109	ND	ND	109
	DD-28 (2.75-4.0)	7/3/2012	06634-031	2.75-4.0	ND	ND	ND	1830	ND	ND	1830
	DD-28 (4.0-6.0)	7/3/2012	06634-032	4.0-6.0	ND	ND	ND	0.298	ND	ND	0.298
DD-28N	DD-28N (0-2.0)	4/18/2013	03562-031	0.0-2.0	ND	62.2	ND	ND	1.98	ND	64.18
	DD-28N (2.0-4.0)	4/18/2013	03562-032	2.0-4.0	ND	ND	ND	ND	44.4	ND	44.4
DD-28S	DD-28S (1.0-2.0)	4/18/2013	03562-023	1.0-2.0	ND	ND	21.7	ND	32.2	ND	53.9
	DD-28S (2.0-4.0)	4/18/2013	03562-024	2.0-4.0	ND	ND	ND	ND	515	ND	515
	DD-28S (4.0-5.0)	4/18/2013	03562-025	4.0-5.0	ND	ND	ND	ND	0.592	ND	0.592
	DD-28S (5.0-6.0)	4/18/2013	03562-026	5.0-6.0	ND	ND	ND	ND	ND	ND	0
DD-28W	DD-28W (0-2.0)	4/18/2013	03562-029	0.0-2.0	ND	7.05	ND	ND	2.39	ND	9.44
	DD-28W (2.0-4.0)	4/18/2013	03562-030	2.0-4.0	ND	ND	ND	ND	18.1	ND	18.1
DD-29	DD-29 (0.0-2.0)	7/3/2012	06634-019	0.0-2.0	ND	ND	15.9	31.3	ND	ND	47.2
	DD-29 (2.0-4.0)	7/3/2012	06634-020	2.0-4.0	ND	ND	ND	175	ND	ND	175
	DD-29 (4.0-6.0)	7/3/2012	06634-021	4.0-6.0	ND	67.7	ND	25.7	ND	ND	93.4
	DD-29 (5.0-5.5)	8/13/2012	08194-023	5.0-5.5	ND	ND	0.577	0.869	ND	ND	1.446
	DD-29 (6.0-6.5)	8/13/2012	08194-024	6.0-6.5	ND	ND	ND	0.179	ND	ND	0.179
DD-29E	DD-29E (0-2.0)	4/15/2013	03394-023	0.0-2.0	ND	379	ND	ND	ND	ND	379
	DD-29E (2.0-4.0)	4/15/2013	03394-024	2.0-4.0	ND	ND	ND	3100	ND	ND	3100
	DD-29E (4.0-5.0)	4/15/2013	03394-025	4.0-5.0	ND	0.329	ND	ND	ND	ND	0.329
	DD-29E (5.0-6.0)	4/15/2013	03394-026	5.0-6.0	ND	0.03	J ND	ND	ND	ND	0.03
DD-29S	DD-29S (2.0-4.0)	5/15/2013	04537-015	2.0-4.0	ND	ND	ND	600	ND	ND	600
	DD-29S (4.0-6.0)	5/15/2013	04537-016	4.0-6.0	ND	ND	ND	5.43	ND	ND	5.43
DD-29W	DD-29W (2.0-4.0)	4/18/2013	03562-027	2.0-4.0	2100	ND	ND	ND	ND	ND	2100
	DD-29W (4.0-6.0)	4/18/2013	03562-028	4.0-6.0	5.06	ND	ND	ND	1.18	ND	6.24
DD-36	DD-36 (0-2.0)	4/4/2013	03068-003	0.0-2.0	ND	193	ND	9.94	ND	ND	202.94
	DD-36 (2.0-4.0)	4/4/2013	03068-004	2.0-4.0	ND	0.289	ND	ND	ND	ND	0.289
DD-37	DD-37 (0-2.0)	4/4/2013	03068-001	0.0-2.0	ND	91.6	ND	ND	ND	ND	91.6
	DD-37 (2.0-4.0)	4/4/2013	03068-002	2.0-4.0	ND	6.95	ND	0.744	ND	ND	7.694
DD-38	DD-38 (0.0-2.0)	6/27/2012	06456-001	0.0-2.0	ND	30.7	ND	7.24	ND	ND	37.94
	DD-38 (2.0-4.0)	6/27/2012	06456-002	2.0-4.0	ND	17.4	ND	ND	ND	ND	17.4
	DD-38 (4.0-6.0)	6/27/2012	06456-003	4.0-6.0	ND	5.06	ND	1.2	ND	ND	6.26
EE-18	EE-18 (0-2.0)	8/13/2012	08194-030	0.0-2.0	ND	39.4	ND	ND	ND	ND	39.4
	EE-18 (2.0-4.0)	8/13/2012	08194-031	2.0-4.0	ND	37.4	ND	ND	ND	ND	37.4
	EE-18 (4.0-6.0)	8/13/2012	08194-032	4.0-6.0	ND	ND	ND	ND	ND	ND	0
EE-19	EE-19 (0.0-2.0)	8/8/2012	08042-016	0.0-2.0	ND	9.65	ND	ND	ND	ND	9.65
	EE-19 (2.0-3.0)	8/8/2012	08042-017	2.0-3.0	ND	0.563	ND	ND	ND	ND	0.563
	EE-19 (3.0-4.0)	8/8/2012	08042-018	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	EE-19 (4.0-6.0)	8/8/2012	08042-019	4.0-6.0	ND	ND	ND	ND	ND	ND	0
EE-20	EE-20 (0.0-2.0)	8/8/2012	08042-020	0.0-2.0	ND	10.4	ND	ND	ND	ND	10.4
	EE-20 (2.0-3.0)	8/8/2012	08042-021	2.0-3.0	ND	8.17	ND	ND	ND	ND	8.17
	EE-20 (3.0-3.75)	8/8/2012	08042-022	3.0-3.75	ND	ND	ND	ND	ND	ND	0
	EE-20 (4.0-6.0)	8/8/2012	08042-023	4.0-6.0	ND	ND	ND	ND	ND	ND	0
EE-21	EE-21 (0.0-2.0)	8/8/2012	08042-024	0.0-2.0	ND	0.506	ND	ND	ND	ND	0.506
	EE-21 (2.0-3.0)	8/8/2012	08042-025	2.0-3.0	ND	ND	ND	ND	ND	ND	0
	EE-21 (3.0-4.0)	8/8/2012	08042-026	3.0-4.0	ND	ND	ND	ND	ND	ND	0
	EE-21 (4.0-6.0)	8/8/2012	08042-027	4.0-6.0	ND	ND	ND	ND	ND	ND	0
EE-22	EE-22 (0-2.0)	9/12/2012	09240-057	0.0-2.0	ND	32.7	ND	ND	ND	ND	32.7
	EE-22 (2.0-4.0)	9/12/2012	09240-058	2.0-4.0	ND	50.3	ND	ND	ND	ND	50.3
	EE-22 (4.0-5.0)	9/12/2012	09240-059	4.0-5.0	ND	65.7	ND	ND	ND	ND	65.7
	EE-22 (5.0-6.0)	9/12/2012	09240-060	5.0-6.0	ND	8.09	ND	ND	ND	ND	8.09
	EE-22 (6.0-8.0)	9/12/2012	09240-061	6.0-8.0	ND	ND	ND	ND	ND	ND	0
EE-22E	EE-22E (2.0-4.0)	8/23/2013	08259-010	2.0-4.0	ND	1.07	ND	ND	ND	ND	1.07
	EE-22E (4.0-6.0)	8/23/2013	08259-011	4.0-6.0	ND	0.691	ND	ND	ND	ND	0.691
EE-22N	EE-22N (2.0-4.0)	4/11/2013	03283-010	2.0-4.0	ND	3.26	ND	ND	ND	ND	3.26
	EE-22N (4.0-5.0)	4/11/2013	03283-011	4.0-5.0	ND	0.164	ND	ND	ND	ND	0.164
	EE-22N (5.0-6.0)	4/11/2013	03283-012	5.0-6.0	ND	ND	ND	ND	ND	ND	0

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EE-22W	EE-22W (2.0-4.0)	4/11/2013	03283-008	2.0-4.0	ND	0.393	ND	ND	ND	ND	0.393
	EE-22W (4.0-6.0)	4/11/2013	03283-009	4.0-6.0	ND	ND	ND	ND	ND	ND	0
EE-23	EE-23 (0-2.0)	9/12/2012	09240-052	0.0-2.0	ND	28	ND	ND	ND	ND	28
	EE-23 (2.0-4.0)	9/12/2012	09240-053	2.0-4.0	ND	7.08	ND	ND	ND	ND	7.08
	EE-23 (4.0-5.0)	9/12/2012	09240-054	4.0-5.0	ND	1.07	ND	ND	ND	ND	1.07
	EE-23 (5.0-6.0)	9/12/2012	09240-055	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	EE-23 (6.0-8.0)	9/12/2012	09240-056	6.0-8.0	ND	ND	ND	ND	ND	ND	0
EE-24	EE-24 (0.0-2.0)	7/5/2012	06684-040	0.0-2.0	ND	43.6	ND	ND	ND	ND	43.6
	EE-24 (2.0-4.0)	7/5/2012	06684-041	2.0-4.0	ND	1.98	ND	ND	ND	ND	1.98
	EE-24 (4.0-6.0)	7/5/2012	06684-042	4.0-6.0	ND	ND	ND	ND	ND	ND	0
EE-25	EE-25 (0.0-2.0)	7/5/2012	06684-029	0.0-2.0	ND	0.052	ND	ND	ND	ND	0.052
	EE-25 (2.0-4.0)	7/5/2012	06684-030	2.0-4.0	ND	0.154	ND	ND	ND	ND	0.154
	EE-25 (4.0-6.0)	7/5/2012	06684-031	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	EE-25 (6.0-8.0)	7/5/2012	06684-032	6.0-8.0	ND	0.914	ND	ND	ND	ND	0.914
EE-25E	EE-25E (0-2.0)	8/21/2013	08149-023	0.0-2.0	ND	4.27	ND	ND	ND	ND	4.27
EE-26	EE-26 (0.0-2.0)	7/5/2012	06684-013	0.0-2.0	ND	69.1	ND	ND	ND	ND	69.1
	EE-26 (2.0-4.0)	7/5/2012	06684-014	2.0-4.0	ND	16.5	ND	5.85	ND	ND	22.35
	EE-26 (4.0-6.0)	7/5/2012	06684-015	4.0-6.0	ND	ND	ND	ND	ND	ND	0
	G-6A	11/10/1994	G-6	0.25-0.75	ND	230	ND	ND	NA	NA	230
	G-6B	11/10/1994	G-6	2.0-2.5	ND	ND	ND	19	NA	NA	19
	G-6N	6/5/1995	G-6 Native	6.0-6.5	ND	0.092	0.037	0.024	NA	NA	0.153
EE-26E	EE-26E (0-2.0)	4/11/2013	03283-019	0.0-2.0	ND	82.5	ND	9.21	ND	ND	91.71
EE-26N	EE-26N (0-2.0)	4/11/2013	03283-018	0.0-2.0	ND	2.38	ND	2.03	ND	ND	4.41
EE-26S	EE-26S (0-2.0)	4/11/2013	03283-020	0.0-2.0	ND	356	ND	ND	ND	ND	356
EE-26W	EE-26W (0-2.0)	4/11/2013	03283-021	0.0-2.0	ND	0.755	ND	ND	0.258	ND	1.013
	EE-26W (2.0-4.0)	8/21/2013	08149-022	2.0-4.0	ND	1.89	ND	ND	ND	ND	1.89
EE-27	EE-27 (0.0-2.0)	7/3/2012	06634-058	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	EE-27 (2.0-4.0)	7/3/2012	06634-059	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	EE-27 (4.0-6.0)	7/3/2012	06634-060	4.0-6.0	ND	ND	ND	22.6	ND	ND	22.6
EE-28	EE-28 (0.0-2.0)	7/3/2012	06634-033	0.0-2.0	ND	13.3	ND	27.3	ND	ND	40.6
	EE-28 (2.0-4.0)	7/3/2012	06634-034	2.0-4.0	ND	ND	ND	3050	ND	ND	3050
	EE-28 (4.0-6.0)	7/3/2012	06634-035	4.0-6.0	ND	ND	ND	9.25	ND	ND	9.25
EE-28E	EE-28E (2.0-4.0)	4/11/2013	03283-024	2.0-4.0	7.48	ND	ND	15.7	ND	ND	23.18
EE-28N	EE-28N (2.0-3.5)	4/11/2013	03283-022	2.0-3.5	ND	ND	ND	ND	0.298	ND	0.298
	EE-28N (3.5-4.0)	4/11/2013	03283-023	3.5-4.0	ND	ND	ND	980	ND	ND	980
EE-28S	EE-28S (2.0-3.5)	4/11/2013	03283-025	2.0-3.5	ND	ND	ND	0.363	ND	ND	0.363
	EE-28S (3.5-4.0)	4/11/2013	03283-026	3.5-4.0	ND	ND	ND	877	ND	ND	877
EE-28W	EE-28W (0-1.0)	4/11/2013	03283-027	0.0-1.0	ND	30.9	ND	78.5	ND	ND	109.4
	EE-28W (1.0-2.0)	4/11/2013	03283-028	1.0-2.0	ND	ND	ND	1110	ND	ND	1110
	EE-28W (2.0-4.0)	4/11/2013	03283-029	2.0-4.0	ND	ND	309	406	ND	ND	715
EE-29	EE-29 (0.0-2.0)	7/3/2012	06634-016	0.0-2.0	ND	21.5	ND	ND	ND	ND	21.5
	EE-29 (2.0-4.0)	7/3/2012	06634-017	2.0-4.0	ND	ND	ND	ND	2.51	ND	2.51
	EE-29 (4.0-6.0)	7/3/2012	06634-018	4.0-6.0	ND	ND	ND	ND	2.72	ND	2.72
EE-30	EE-30 (0.0-2.0)	7/2/2012	06583-046	0.0-2.0	ND	157	ND	ND	ND	ND	157
	EE-30 (2.0-4.0)	7/2/2012	06583-047	2.0-4.0	ND	9.13	ND	13.9	ND	ND	23.03
	EE-30 (4.0-6.0)	7/2/2012	06583-048	4.0-6.0	ND	1.01	ND	ND	ND	ND	1.01
EE-30N	EE-30N (0-2.0)	4/18/2013	03562-037	0.0-2.0	ND	133	ND	ND	ND	ND	133
EE-36	EE-36 (0-2.0)	4/4/2013	03068-007	0.0-2.0	ND	172	ND	14.4	ND	ND	186.4
	EE-36 (2.0-4.0)	4/4/2013	03068-008	2.0-4.0	ND	0.249	ND	ND	ND	ND	0.249
EE-37	EE-37 (0-2.0)	4/4/2013	03068-005	0.0-2.0	ND	78.9	ND	ND	ND	ND	78.9
	EE-37 (2.0-4.0)	4/4/2013	03068-006	2.0-4.0	ND	8.68	ND	0.564	ND	ND	9.244
EE-37N	EE-37N (0-2.0)	5/9/2013	04329-013	0.0-2.0	ND	17.2	ND	ND	ND	ND	17.2

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
FF-18	FF-18 (0-2.0)	8/13/2012	08194-033	0.0-2.0	ND	3.13	ND	ND	ND	ND	3.13
	FF-18 (2.0-4.0)	8/13/2012	08194-034	2.0-4.0	ND	25	ND	ND	ND	ND	25
	FF-18 (4.0-4.75)	8/13/2012	08194-035	4.0-4.75	ND	1.09	ND	ND	ND	ND	1.09
	FF-18 (4.75-6.0)	8/13/2012	08194-036	4.75-6.0	ND	ND	ND	ND	ND	ND	0
FF-19	FF-19 (0-2.0)	8/13/2012	08194-037	0.0-2.0	ND	3.73	ND	ND	ND	ND	3.73
	FF-19 (2.0-4.0)	8/13/2012	08194-038	2.0-4.0	ND	22.3	ND	ND	ND	ND	22.3
	FF-19 (4.0-5.0)	8/13/2012	08194-039	4.0-5.0	ND	49.3	ND	ND	ND	ND	49.3
	FF-19 (5.0-6.0)	8/13/2012	08194-040	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	FF-19 (6.0-8.0)	8/13/2012	08194-041	6.0-8.0	ND	0.103	ND	ND	ND	ND	0.103
FF-20	FF-20 (0-2.0)	8/13/2012	08194-042	0.0-2.0	ND	12.7	ND	ND	ND	ND	12.7
	FF-20 (2.0-4.0)	8/13/2012	08194-043	2.0-4.0	ND	39.4	ND	4.03	ND	ND	43.43
	FF-20 (4.0-5.0)	8/13/2012	08194-044	4.0-5.0	ND	16.2	ND	ND	ND	ND	16.2
	FF-20 (5.0-6.0)	8/13/2012	08194-045	5.0-6.0	ND	ND	ND	ND	ND	ND	0
	FF-20 (6.0-8.0)	8/13/2012	08194-046	6.0-8.0	ND	ND	ND	ND	ND	ND	0
FF-21	FF-21 (0.0-2.0)	8/8/2012	08042-028	0.0-2.0	ND	60	ND	ND	ND	ND	60
	FF-21 (2.0-4.0)	8/8/2012	08042-029	2.0-4.0	ND	126	ND	ND	ND	ND	126
	FF-21 (4.0-6.0)	8/8/2012	08042-030	4.0-6.0	ND	19.1	ND	13.6	ND	ND	32.7
	FF-21 (6.0-8.0)	8/8/2012	08042-031	6.0-8.0	ND	10.1	ND	ND	ND	ND	10.1
	FF-21 (8.0-9.0)	8/8/2012	08042-032	8.0-9.0	ND	46.3	ND	ND	ND	ND	46.3
	FF-21 (9.0-10.0)	8/8/2012	08042-033	9.0-10.0	ND	37.5	ND	ND	ND	ND	37.5
FF-21E	FF-21E (0-2.0)	8/23/2013	08259-014	0.0-2.0	ND	0.296	ND	ND	ND	ND	0.296
	FF-21E (2.0-4.0)	8/23/2013	08259-015	2.0-4.0	ND	0.668	ND	ND	ND	ND	0.668
FF-21N	FF-21N (0-2.0)	4/11/2013	03283-015	0.0-2.0	ND	21.5	ND	ND	ND	ND	21.5
	FF-21N (2.0-4.0)	4/11/2013	03283-016	2.0-4.0	ND	10.1	ND	ND	ND	ND	10.1
FF-21S	FF-21S (0-2.0)	8/23/2013	08259-012	0.0-2.0	ND	38.8	D	ND	ND	ND	38.8
	FF-21S (2.0-4.0)	8/23/2013	08259-013	2.0-4.0	ND	0.736	ND	ND	ND	ND	0.736
FF-21W	FF-21W (0-2.0)	4/11/2013	03283-013	0.0-2.0	ND	20.1	ND	ND	ND	ND	20.1
	FF-21W (2.0-4.0)	4/11/2013	03283-014	2.0-4.0	ND	16.6	ND	ND	ND	ND	16.6
FF-24	FF-24 (0.0-2.0)	7/5/2012	06684-037	0.0-2.0	ND	88.1	ND	ND	ND	ND	88.1
	FF-24 (2.0-4.0)	7/5/2012	06684-038	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	FF-24 (4.0-6.0)	7/5/2012	06684-039	4.0-6.0	ND	ND	ND	ND	ND	ND	0
FF-24E	FF-24E (0-2.0)	8/23/2013	08259-008	0.0-2.0	ND	0.1	ND	ND	ND	ND	0.1
FF-24N	FF-24N (0-2.0)	8/23/2013	08259-009	0.0-2.0	ND	45.2	D	ND	ND	ND	45.2
FF-24S	FF-24S (0-2.0)	4/11/2013	03283-006	0.0-2.0	ND	0.309	ND	ND	ND	ND	0.309
FF-24W	FF-24W (0-2.0)	4/11/2013	03283-007	0.0-2.0	ND	23.6	ND	9.27	ND	ND	32.87
FF-25	FF-25 (0.0-2.0)	7/5/2012	06684-026	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	FF-25 (2.0-4.0)	7/5/2012	06684-027	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	FF-25 (4.0-6.0)	7/5/2012	06684-028	4.0-6.0	ND	ND	ND	ND	ND	ND	0
FF-26	FF-26 (0.0-2.0)	7/5/2012	06684-016	0.0-2.0	ND	32.6	ND	8.17	ND	ND	40.77
	FF-26 (2.0-4.0)	7/5/2012	06684-017	2.0-4.0	ND	0.893	ND	ND	ND	ND	0.893
	FF-26 (4.0-6.0)	7/5/2012	06684-018	4.0-6.0	ND	ND	ND	ND	ND	ND	0
FF-27	FF-27 (0.0-2.0)	7/3/2012	06634-054	0.0-2.0	ND	ND	20.4	26.3	ND	ND	46.7
	FF-27 (2.0-4.0)	7/3/2012	06634-055	2.0-4.0	ND	ND	ND	ND	0.489	ND	0.489
	FF-27 (4.0-4.5)	7/3/2012	06634-056	4.0-4.5	ND	ND	ND	118	ND	ND	118
	FF-27 (4.5-6.0)	7/3/2012	06634-057	4.5-6.0	ND	ND	ND	1.83	ND	ND	1.83
FF-27E	FF-27E (4.0-5.0)	4/12/2013	03329-006	4.0-5.0	ND	3.18	ND	ND	ND	ND	3.18
	FF-27E (5.0-6.0)	4/12/2013	03329-005	5.0-6.0	ND	ND	ND	ND	ND	ND	0
FF-27N	FF-27N (4.0-5.0)	4/12/2013	03329-003	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	FF-27N (5.0-6.0)	4/12/2013	03329-004	5.0-6.0	ND	ND	ND	ND	ND	ND	0
FF-27S	FF-27S (3.5-4.0)	4/12/2013	03329-007	3.5-4.0	ND	ND	ND	6310	ND	ND	6310
	FF-27S (4.0-6.0)	4/12/2013	03329-008	4.0-6.0	ND	4.37	ND	3.95	ND	ND	8.32
FF-27W	FF-27W (4.0-5.0)	4/12/2013	03329-001	4.0-5.0	ND	ND	ND	ND	1.6	ND	1.6
	FF-27W (5.0-6.0)	4/12/2013	03329-002	5.0-6.0	ND	ND	ND	ND	ND	ND	0
FF-28	FF-28 (0.0-2.0)	7/3/2012	06634-036	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	FF-28 (2.0-4.0)	7/3/2012	06634-037	2.0-4.0	ND	2.53	ND	ND	ND	ND	2.53
	FF-28 (4.0-6.0)	7/3/2012	06634-038	4.0-6.0	ND	ND	ND	0.756	ND	ND	0.756

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR		AROCHLOR		AROCHLOR		AROCHLOR		TOTAL PCBs	
					1242		1248		1254		1260			1262
FF-29	FF-29 (0.0-2.0)	7/3/2012	06634-013	0.0-2.0	ND		5		ND		5.76		ND	10.76
	FF-29 (2.0-4.0)	7/3/2012	06634-014	2.0-4.0	ND		ND		ND		0.224		ND	0.224
	FF-29 (4.0-6.0)	7/3/2012	06634-015	4.0-6.0	ND		ND		ND		ND		ND	0
FF-30	FF-30 (0.0-2.0)	7/2/2012	06583-049	0.0-2.0	ND		499		ND		ND		ND	499
	FF-30 (2.0-4.0)	7/2/2012	06583-050	2.0-4.0	ND		1		ND		ND		ND	1
	FF-30 (4.0-6.0)	7/2/2012	06583-051	4.0-6.0	ND		0.215		ND		ND		ND	0.215
FF-30N	FF-30N (0-2.0)	4/15/2013	03394-022	0.0-2.0	ND		34.4		ND		ND		ND	34.4
FF-31	FF-31 (0.0-2.0)	7/2/2012	06583-043	0.0-2.0	ND		477		ND		ND		ND	477
	FF-31 (2.0-4.0)	7/2/2012	06583-044	2.0-4.0	ND		16.9		ND		ND		ND	16.9
	FF-31 (4.0-6.0)	7/2/2012	06583-045	4.0-6.0	ND		ND		ND		41.8		ND	41.8
FF-33	FF-33 (0-2.0)	8/16/2013	08025-019	0.0-2.0	29800	D	ND		ND		ND		ND	29800
FF-34	FF-34 (0-2.0)	4/4/2013	03068-011	0.0-2.0	ND		61.2		ND		19.6		ND	80.8
	FF-34 (2.0-4.0)	4/4/2013	03068-012	2.0-4.0	ND		ND		ND		ND		ND	0
FF-35	FF-35 (0-2.0)	4/4/2013	03068-009	0.0-2.0	ND		88.4		ND		ND		ND	88.4
	FF-35 (2.0-4.0)	4/4/2013	03068-010	2.0-4.0	ND		0.183		ND		ND		ND	0.183
FF-35N	FF-35N (0-2.0)	8/16/2013	08025-020	0.0-2.0	ND		28.4	D	ND		8.6	D	ND	37
	FF-35N (2.0-4.0)	8/16/2013	08025-021	2.0-4.0	ND		17.4	D	ND		ND		ND	17.4
FF-36	FF-36 (0-2.0)	10/17/2012	10545-049	0.0-2.0	ND		89.9		ND		ND		ND	89.9
	FF-36 (2.0-3.0)	10/17/2012	10545-050	2.0-3.0	ND		97.9		ND		ND		ND	97.9
	FF-36 (3.0-4.0)	10/17/2012	10545-051	3.0-4.0	ND		0.928		ND		ND		ND	0.928
	FF-36 (4.0-5.0)	10/17/2012	10545-052	4.0-5.0	ND		0.669		ND		ND		ND	0.669
	FF-36 (5.0-6.0)	10/17/2012	10545-053	5.0-6.0	ND		0.083		ND		ND		ND	0.083
FF-36N	FF-36N (2.0-4.0)	5/9/2013	04329-027	2.0-4.0	ND		4.29		ND		ND		ND	4.29
GG-20	GG-20 (0-2.0)	8/13/2012	08194-047	0.0-2.0	ND		4.26		ND		ND		ND	4.26
	GG-20 (2.0-4.0)	8/13/2012	08194-048	2.0-4.0	20.1		ND		ND		ND		ND	20.1
	GG-20 (4.0-6.0)	8/13/2012	08194-049	4.0-6.0	92		ND		ND		ND		ND	92
	GG-20 (6.0-6.75)	8/13/2012	08194-050	6.0-6.75	3.13		ND		ND		ND		ND	3.13
	GG-20 (6.75-8.0)	8/13/2012	08194-051	6.75-8.0	ND		0.028	J	ND		ND		ND	0.028
	G-5C	6/2/1995	N of G-5	0-0.5	ND		110		ND		ND		NA	110
	G-5D	5/22/1998	N of G-5	3.0-3.5	ND		33.4		ND		ND		NA	33.4
GG-20E	GG-20E (0-2.0)	8/23/2013	08259-018	0.0-2.0	ND		ND		ND		ND		ND	0
	GG-20E (4.0-6.0)	8/23/2013	08259-019	4.0-6.0	ND		ND		ND		ND		ND	0
GG-20E(1)	GG-20E(1) 4.0-6.0)	8/23/2013	08259-020	4.0-6.0	ND		15.7	D	ND		ND		ND	15.7
GG-20N	GG-20N (0-2.0)	8/23/2013	08259-021	0.0-2.0	ND		2.86		ND		ND		ND	2.86
	GG-20N (4.0-6.0)	8/23/2013	08259-022	4.0-6.0	ND		1.62		ND		ND		ND	1.62
GG-20N(1)	GG-20N(1) (4.0-6.0)	8/23/2013	08259-001	4.0-6.0	ND		ND		ND		ND		ND	0
GG-20S	GG-20S (0-2.0)	8/23/2013	08259-017	0.0-2.0	ND		1.26		ND		ND		ND	1.26
GG-20S(1)	GG-20S(1) (4.0-6.0)	8/23/2013	08259-016	4.0-6.0	ND		0.597		ND		ND		ND	0.597
GG-20W	GG-20W (4.0-6.0)	4/11/2013	03283-017	4.0-6.0	ND		683		ND		ND		ND	683
GG-25	GG-25 (0.0-2.0)	7/5/2012	06684-022	0.0-2.0	ND		62.6		ND		ND		ND	62.6
	GG-25 (2.0-4.0)	7/5/2012	06684-023	2.0-4.0	ND		6.4		ND		ND		ND	6.4
	GG-25 (4.0-6.0)	7/5/2012	06684-024	4.0-6.0	ND		0.476		ND		ND		ND	0.476
	GG-25 (6.0-8.0)	7/5/2012	06684-025	6.0-8.0	ND		ND		ND		ND		ND	0
	G-6E	5/22/1998	G-6	0-0.5	ND		65.7		ND		0.995		NA	66.695
	G-6F	5/22/1998	G-6	2.0-2.5	ND		1.55		ND		0.166		NA	1.716
GG-25E	GG-25E (0-2.0)	8/23/2013	08259-006	0.0-2.0	ND		10.6	D	ND		ND		ND	10.6
GG-25N	GG-25N (0-2.0)	8/23/2013	08259-007	0.0-2.0	ND		22.6	D	ND		ND		ND	22.6
GG-25S	GG-25S (0-2.0)	4/11/2013	03283-004	0.0-2.0	ND		1.46		ND		1.04		ND	2.5
GG-25W	GG-25W ((0-2.0)	4/11/2013	03283-005	0.0-2.0	ND		0.851		ND		0.351		ND	1.202

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GG-26	GG-26 (0.0-2.0)	7/5/2012	06684-019	0.0-2.0	ND	7.84	ND	8.8	ND	ND	16.64
	GG-26 (2.0-4.0)	7/5/2012	06684-020	2.0-4.0	ND	0.58	ND	0.521	ND	ND	1.101
	GG-26 (4.0-6.0)	7/5/2012	06684-021	4.0-6.0	ND	ND	ND	0.926	ND	ND	0.926
	G-6C	6/2/1995	G-6	0-0.5	ND	2	0.88	0.37	NA	NA	3.25
	G-6D	6/2/1995	G-6	2.0-2.5	ND	0.18	ND	ND	NA	NA	0.18
GG-27	GG-27 (0.0-2.0)	7/3/2012	06634-051	0.0-2.0	ND	2.08	ND	ND	ND	ND	2.08
	GG-27 (2.0-4.0)	7/3/2012	06634-052	2.0-4.0	ND	1.84	ND	ND	3.72	ND	5.56
	GG-27 (4.0-6.0)	7/3/2012	06634-053	4.0-6.0	ND	0.051	ND	ND	ND	ND	0.051
GG-28	GG-28 (0.0-2.0)	7/3/2012	06634-039	0.0-2.0	ND	ND	17	33.4	ND	ND	50.4
	GG-28 (2.0-4.0)	7/3/2012	06634-040	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	GG-28 (4.0-6.0)	7/3/2012	06634-041	4.0-6.0	ND	ND	ND	ND	ND	ND	0
GG-28E	GG-28E (0-2.0)	4/12/2013	03329-011	0.0-2.0	ND	0.533	ND	1.25	ND	ND	1.783
GG-28N	GG-28N (0-2.0)	4/12/2013	03329-010	0.0-2.0	ND	ND	ND	3.24	ND	ND	3.24
GG-28S	GG-28S (0-2.0)	4/12/2013	03329-012	0.0-2.0	ND	ND	ND	ND	ND	ND	0
GG-28W	GG-28W (0-2.0)	4/12/2013	03329-009	0.0-2.0	ND	4.19	ND	ND	ND	ND	4.19
GG-29	GG-29 (0.0-2.0)	7/3/2012	06634-010	0.0-2.0	ND	16.3	ND	ND	ND	ND	16.3
	GG-29 (2.0-4.0)	7/3/2012	06634-011	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	GG-29 (4.0-6.0)	7/3/2012	06634-012	4.0-6.0	ND	ND	ND	ND	ND	ND	0
GG-30	GG-30 (0.0-2.0)	7/2/2012	06583-052	0.0-2.0	ND	216	ND	ND	ND	ND	216
	GG-30 (2.0-4.0)	7/2/2012	06583-053	2.0-4.0	ND	0.856	ND	ND	ND	ND	0.856
	GG-30 (4.0-6.0)	7/2/2012	06583-054	4.0-6.0	ND	ND	ND	ND	ND	ND	0
GG-30N	GG-30N (0-2.0)	4/12/2013	03329-016	0.0-2.0	ND	43.7	ND	ND	ND	ND	43.7
GG-31	GG-31 (0.0-2.0)	7/2/2012	06583-040	0.0-2.0	ND	513	ND	ND	ND	ND	513
	GG-31 (2.0-4.0)	7/2/2012	06583-041	2.0-4.0	ND	351	ND	ND	ND	ND	351
	GG-31 (4.0-6.0)	7/2/2012	06583-042	4.0-6.0	ND	1.12	ND	ND	ND	ND	1.12
GG-31E	GG-31E (0-2.0)	8/16/2013	08025-015	0.0-2.0	ND	357	D	ND	ND	ND	357
	GG-31E (2.0-4.0)	4/15/2013	03394-021	2.0-4.0	ND	1.41	ND	ND	ND	ND	1.41
GG-31E(1)	GG-31E(1) (2.0-4.0)	8/16/2013	08025-017	2.0-4.0	ND	81.5	D	ND	ND	ND	81.5
GG-31N	GG-31N (0-2.0)	8/16/2013	08025-014	0.0-2.0	ND	83.4	D	ND	ND	ND	83.4
	GG-31N (2.0-3.0)	4/15/2013	03394-019	2.0-3.0	ND	0.283	ND	ND	ND	ND	0.283
	GG-31N (3.0-4.0)	4/15/2013	03394-020	3.0-4.0	ND	0.334	ND	ND	ND	ND	0.334
GG-31S	GG-31S (0-2.0)	8/16/2013	08025-016	0.0-2.0	ND	9150	D	ND	ND	ND	9150
	GG-31S (2.0-4.0)	4/15/2013	03394-017	2.0-4.0	ND	29700	ND	ND	ND	ND	29700
GG-31W	GG-31W (0-2.0)	8/16/2013	08025-013	0.0-2.0	ND	151	D	ND	ND	ND	151
	GG-31W (2.0-4.0)	4/15/2013	03394-018	2.0-4.0	ND	476	ND	ND	ND	ND	476
GG-32	GG-32 (0.0-2.0)	7/2/2012	06583-016	0.0-2.0	ND	31.3	ND	ND	ND	ND	31.3
	GG-32 (2.0-4.0)	7/2/2012	06583-017	2.0-4.0	ND	13	ND	4.53	ND	ND	17.53
	GG-32 (4.0-6.0)	7/2/2012	06583-018	4.0-6.0	ND	ND	ND	ND	ND	ND	0
GG-32W	GG-32W (2.0-4.0)	8/16/2013	08025-018	2.0-4.0	ND	765	D	ND	ND	ND	765
GG-33	GG-33 (0.0-2.0)	7/2/2012	06583-013	0.0-2.0	ND	2110	ND	ND	ND	ND	2110
	GG-33 (2.0-4.0)	7/2/2012	06583-014	2.0-4.0	ND	0.597	ND	ND	ND	ND	0.597
	GG-33 (4.0-6.0)	7/2/2012	06583-015	4.0-6.0	ND	ND	ND	ND	ND	ND	0
GG-33E	GG-33E (0-2.0)	5/9/2013	04329-003	0.0-2.0	ND	36.8	ND	ND	ND	ND	36.8
GG-33E(1)	GG-33E(1) (2.0-4.0)	8/16/2013	08025-022	2.0-4.0	ND	2.11	ND	ND	ND	ND	2.11
GG-33N	GG-33N (0-2.0)	5/15/2013	04537-014	0.0-2.0	ND	33.6	ND	4.42	ND	ND	38.02
GG-33S	GG-33S (0-2.0)	5/9/2013	04329-005	0.0-2.0	ND	1280	ND	ND	ND	ND	1280
GG-33W	GG-33W (0-2.0)	5/9/2013	04329-004	0.0-2.0	4230	ND	ND	ND	ND	ND	4230
GG-34	GG-34 (0.0-2.0)	7/2/2012	06583-001	0.0-2.0	ND	70.6	ND	27.3	ND	ND	97.9
	GG-34 (2.0-4.0)	7/2/2012	06583-002	2.0-4.0	ND	4.95	ND	ND	ND	ND	4.95
	GG-34 (4.0-6.0)	7/2/2012	06583-003	4.0-6.0	ND	0.213	ND	ND	ND	ND	0.213
GG-34W	GG-34W (0-2.0)	5/9/2013	04329-010	0.0-2.0	ND	42.9	ND	38.3	ND	ND	81.2

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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
GG-35	GG-35 (0-2.0)	9/13/2012	09301-001	0.0-2.0	ND	132	ND	ND	ND	ND	132
	GG-35 (2.0-4.0)	9/13/2012	09301-002	2.0-4.0	ND	80.6	ND	ND	ND	ND	80.6
	GG-35 (4.0-5.0)	9/13/2012	09301-003	4.0-5.0	ND	ND	ND	ND	ND	ND	0
	GG-35 (5.0-6.0)	9/13/2012	09301-004	5.0-6.0	ND	0.294	ND	ND	ND	ND	0.294
GG-35N	GG-35N (2.0-4.0)	5/9/2013	04329-007	2.0-4.0	ND	140	ND	ND	ND	ND	140
GG-35W	GG-35W (0-2.0)	5/9/2013	04329-011	0.0-2.0	ND	126	ND	15.8	ND	ND	141.8
	GG-35W (2.0-4.0)	5/9/2013	04329-012	2.0-4.0	ND	169	ND	ND	ND	ND	169
HH-20	G-5E	5/22/1998	N of G-5	0-0.5	ND	6.15	ND	0.251	NA	NA	6.401
HH-26	HH-26 (0.0-2.0)	8/8/2012	08042-012	0.0-2.0	ND	16.1	ND	ND	ND	ND	16.1
	HH-26 (2.0-3.25)	8/8/2012	08042-013	2.0-3.25	ND	1.54	ND	4.29	ND	ND	5.83
	HH-26 (3.25-4.0)	8/8/2012	08042-014	3.25-4.0	ND	ND	ND	ND	ND	ND	0
	HH-26 (4.25-6.0)	8/8/2012	08042-015	4.25-6.0	ND	ND	ND	ND	ND	ND	0
HH-27	HH-27 (0.0-2.0)	7/3/2012	06634-048	0.0-2.0	ND	6.26	ND	10	ND	ND	16.26
	HH-27 (2.0-4.0)	7/3/2012	06634-049	2.0-4.0	ND	ND	0.509	1.12	ND	ND	1.629
	HH-27 (4.0-6.0)	7/3/2012	06634-050	4.0-6.0	ND	ND	ND	ND	ND	ND	0
HH-28	HH-28 (0.0-2.0)	7/3/2012	06634-042	0.0-2.0	ND	ND	ND	ND	ND	ND	0
	HH-28 (2.0-4.0)	7/3/2012	06634-043	2.0-4.0	ND	ND	ND	ND	ND	ND	0
	HH-28 (4.0-6.0)	7/3/2012	06634-044	4.0-6.0	ND	ND	ND	ND	ND	ND	0
HH-29	HH-29 (0.0-2.0)	7/3/2012	06634-007	0.0-2.0	ND	129	ND	ND	ND	ND	129
	HH-29 (2.0-4.0)	7/3/2012	06634-008	2.0-4.0	ND	7.16	ND	ND	ND	ND	7.16
	HH-29 (4.0-6.0)	7/3/2012	06634-009	4.0-6.0	ND	0.177	ND	ND	ND	ND	0.177
HH-29N	HH-29N (0-2.0)	4/12/2013	03329-013	0.0-2.0	ND	129	ND	ND	ND	ND	129
HH-29W	HH-29W (0-2.0)	4/12/2013	03329-014	0.0-2.0	ND	83.9	ND	ND	ND	ND	83.9
HH-30	HH-30 (0.0-2.0)	7/2/2012	06583-055	0.0-2.0	ND	102	ND	ND	ND	ND	102
	HH-30 (2.0-4.0)	7/2/2012	06583-056	2.0-4.0	ND	0.674	ND	ND	ND	ND	0.674
	HH-30 (4.0-6.0)	7/2/2012	06583-057	4.0-6.0	ND	ND	ND	ND	ND	ND	0
HH-31	HH-31 (0.0-2.0)	7/2/2012	06583-037	0.0-2.0	ND	293	ND	ND	ND	ND	293
	HH-31 (2.0-4.0)	7/2/2012	06583-038	2.0-4.0	ND	7.1	ND	ND	ND	ND	7.1
	HH-31 (4.0-6.0)	7/2/2012	06583-039	4.0-6.0	ND	ND	ND	ND	ND	ND	0
HH-31S	HH-31S (0-2.0)	4/15/2013	03394-016	0.0-2.0	ND	182	ND	ND	ND	ND	182
HH-32	HH-32 (0.0-2.0)	7/2/2012	06583-019	0.0-2.0	ND	109	ND	ND	ND	ND	109
	HH-32 (2.0-4.0)	7/2/2012	06583-020	2.0-4.0	ND	41.5	ND	ND	ND	ND	41.5
	HH-32 (4.0-6.0)	7/2/2012	06583-021	4.0-6.0	ND	0.367	ND	ND	ND	ND	0.367
HH-33	HH-33 (0.0-2.0)	7/2/2012	06583-010	0.0-2.0	ND	23.3	ND	5.02	ND	ND	28.32
	HH-33 (2.0-4.0)	7/2/2012	06583-011	2.0-4.0	ND	5.19	1.12	ND	ND	ND	6.31
	HH-33 (4.0-6.0)	7/2/2012	06583-012	4.0-6.0	ND	0.034	J ND	ND	ND	ND	0.034
HH-34	HH-34 (0.0-2.0)	7/2/2012	06583-004	0.0-2.0	ND	2180	ND	ND	ND	ND	2180
	HH-34 (2.0-4.0)	7/2/2012	06583-005	2.0-4.0	ND	752	ND	ND	ND	ND	752
	HH-34 (4.0-6.0)	7/2/2012	06583-006	4.0-6.0	ND	12.4	ND	ND	ND	ND	12.4
HH-34N	HH-34N (0-2.0)	5/15/2013	04537-012	0.0-2.0	ND	3620	ND	ND	ND	ND	3620
	HH-34N (2.0-4.0)	5/15/2013	04537-013	2.0-4.0	ND	7.65	ND	ND	ND	ND	7.65
HH-34S	HH-34S (0-2.0)	5/9/2013	04329-008	0.0-2.0	ND	233	ND	43.8	ND	ND	276.8
	HH-34S (2.0-4.0)	5/9/2013	04329-009	2.0-4.0	ND	303	ND	ND	ND	ND	303
HH-34W	HH-34W (2.0-4.0)	5/9/2013	04329-006	2.0-4.0	ND	222	ND	ND	ND	ND	222
II-27	II-27 (0-2.0)	8/13/2012	08194-026	0.0-2.0	ND	0.777	ND	ND	ND	ND	0.777
	II-27 (2.0-4.0)	8/13/2012	08194-027	2.0-4.0	ND	ND	ND	0.101	ND	ND	0.101
	II-27 (4.0-6.0)	8/13/2012	08194-028	4.0-6.0	ND	ND	ND	0.084	ND	ND	0.084
	II-27 (6.0-8.0)	8/13/2012	08194-029	6.0-8.0	ND	ND	ND	ND	ND	ND	0
II-28	II-28 (0.0-2.0)	7/3/2012	06634-045	0.0-2.0	ND	24.3	ND	ND	ND	ND	24.3
	II-28 (2.0-4.0)	7/3/2012	06634-046	2.0-4.0	ND	16.4	ND	ND	ND	ND	16.4
	II-28 (4.0-6.0)	7/3/2012	06634-047	4.0-6.0	ND	ND	ND	ND	ND	ND	0
II-28E	II-28E (0-2.0)	8/23/2013	08259-002	0.0-2.0	ND	0.558	ND	ND	ND	ND	0.558

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II-29	II-29 (0.0-2.0)	7/3/2012	06634-004	0.0-2.0	ND	91.1	ND	ND	ND	ND	91.1
	II-29 (2.0-4.0)	7/3/2012	06634-005	2.0-4.0	ND	23.8	ND	ND	ND	ND	23.8
	II-29 (4.0-6.0)	7/3/2012	06634-006	4.0-6.0	ND	0.215	ND	ND	ND	ND	0.215
II-29E	II-29E (0-2.0)	4/15/2013	03394-001	0.0-2.0	80	ND	ND	ND	ND	ND	80
II-29N	II-29N (0-2.0)	4/12/2013	03329-015	0.0-2.0	ND	252	ND	ND	ND	ND	252
II-30	II-30 (0.0-2.0)	7/2/2012	06583-058	0.0-2.0	ND	90.5	ND	ND	ND	ND	90.5
	II-30 (2.0-4.0)	7/2/2012	06583-059	2.0-4.0	ND	22.6	ND	ND	ND	ND	22.6
	II-30 (4.0-6.0)	7/2/2012	06583-060	4.0-6.0	ND	0.375	ND	ND	ND	ND	0.375
	G-7B	11/10/1994	G-7	1.75-2.25	ND	230	ND	ND	NA	NA	230
	G-7N	6/5/1995	G-7 Native	6.0-6.5	ND	0.24	ND	ND	NA	NA	0.24
II-31	II-31 (0.0-2.0)	7/2/2012	06583-034	0.0-2.0	ND	2230	ND	ND	ND	ND	2230
	II-31 (2.0-4.0)	7/2/2012	06583-035	2.0-4.0	ND	15.1	ND	ND	ND	ND	15.1
	II-31 (4.0-6.0)	7/2/2012	06583-036	4.0-6.0	ND	0.597	ND	ND	ND	ND	0.597
	PP-5	3/3/1993	G-7	0-0.5	ND	110	ND	15	NA	NA	125
II-31E	II-31E (2.0-4.0)	4/15/2013	03394-011	2.0-4.0	ND	3.2	ND	ND	ND	ND	3.2
II-31N	II-31N (0-2.0)	4/15/2013	03394-012	0.0-2.0	ND	57.3	ND	ND	ND	ND	57.3
II-31S	II-31S (0-2.0)	4/15/2013	03394-014	0.0-2.0	ND	286	ND	ND	ND	ND	286
II-31W	II-31W (0-2.0)	4/15/2013	03394-013	0.0-2.0	ND	110	ND	ND	ND	ND	110
II-32	II-32 (0.0-2.0)	7/2/2012	06583-022	0.0-2.0	ND	305	ND	ND	ND	ND	305
	II-32 (2.0-4.0)	7/2/2012	06583-023	2.0-4.0	ND	49.5	ND	ND	ND	ND	49.5
	II-32 (4.0-6.0)	7/2/2012	06583-024	4.0-6.0	ND	0.523	ND	ND	ND	ND	0.523
II-33	II-33 (0.0-2.0)	7/2/2012	06583-007	0.0-2.0	ND	319	ND	ND	ND	ND	319
	II-33 (2.0-4.0)	7/2/2012	06583-008	2.0-4.0	ND	28.1	ND	ND	ND	ND	28.1
	II-33 (4.0-6.0)	7/2/2012	06583-009	6.0-8.0	ND	1.12	ND	ND	ND	ND	1.12
JJ-29	JJ-29 (0.0-2.0)	8/8/2012	08042-008	0.0-2.0	ND	9.45	ND	ND	ND	ND	9.45
	JJ-29 (2.0-3.0)	8/8/2012	08042-009	2.0-3.0	ND	40.3	ND	ND	ND	ND	40.3
	JJ-29 (3.0-4.0)	8/8/2012	08042-010	3.0-4.0	ND	1.43	ND	ND	ND	ND	1.43
	JJ-29 (4.5-6.0)	8/8/2012	08042-011	4.5-6.0	ND	ND	ND	ND	ND	ND	0
	G-7E	6/2/1995	G-7	0-0.5	ND	200	ND	ND	NA	NA	200
	G-7F	6/5/1995	G-7	2.0-2.5	ND	1.9	ND	ND	NA	NA	1.9
	G-7G	5/22/1998	G-7	0-0.5	ND	0.377	ND	ND	NA	NA	0.377
	G-7H	5/22/1998	G-7	2.0-2.5	ND	2.22	ND	0.0692	NA	NA	2.2892
JJ-29E	JJ-29E (0-2.0)	8/23/2013	08259-004	0.0-2.0	ND	0.455	ND	ND	ND	ND	0.455
JJ-29N	JJ-29N (0-2.0)	8/23/2013	08259-003	0.0-2.0	ND	4.55	ND	ND	ND	ND	4.55
JJ-30	JJ-30 (0.0-2.0)	7/3/2012	06634-001	0.0-2.0	ND	128	ND	ND	ND	ND	128
	JJ-30 (2.0-4.0)	7/3/2012	06634-002	2.0-4.0	ND	1.41	ND	ND	ND	ND	1.41
	JJ-30 (4.0-6.0)	7/3/2012	06634-003	4.0-6.0	ND	0.174	ND	ND	ND	ND	0.174
JJ-30N	JJ-30N (0-2.0)	4/15/2013	03394-002	0.0-2.0	ND	14.3	ND	ND	ND	ND	14.3
JJ-31	JJ-31 (0.0-2.0)	7/2/2012	06583-031	0.0-2.0	ND	1590	ND	ND	ND	ND	1590
	JJ-31 (2.0-4.0)	7/2/2012	06583-032	2.0-4.0	ND	103	ND	ND	ND	ND	103
	JJ-31 (4.0-6.0)	7/2/2012	06583-033	4.0-6.0	ND	0.289	ND	ND	ND	ND	0.289
JJ-31E	JJ-31E (0-2.0)	4/15/2013	03394-006	0.0-2.0	ND	1490	ND	ND	ND	ND	1490
	JJ-31E (2.0-4.0)	4/15/2013	03394-007	2.0-4.0	ND	3540	ND	ND	ND	ND	3540
JJ-31N	JJ-31N (0-2.0)	4/15/2013	03394-003	0.0-2.0	ND	63.9	ND	ND	ND	ND	63.9
	JJ-31N (2.0-3.0)	4/15/2013	03394-004	2.0-3.0	ND	3.67	ND	ND	ND	ND	3.67
	JJ-31N (3.0-4.0)	4/15/2013	03394-005	3.0-4.0	ND	ND	ND	ND	ND	ND	0
JJ-31S	JJ-31S (0-2.0)	4/15/2013	03394-008	0.0-2.0	ND	343	ND	ND	ND	ND	343
	JJ-31S (2.0-3.0)	4/15/2013	03394-009	2.0-3.0	79.2	ND	ND	ND	ND	ND	79.2
	JJ-31S (3.0-4.0)	4/15/2013	03394-010	3.0-4.0	ND	ND	ND	ND	ND	ND	0
JJ-32	JJ-32 (0.0-2.0)	7/2/2012	06583-025	0.0-2.0	ND	72.9	ND	ND	ND	ND	72.9
	JJ-32 (2.0-4.0)	7/2/2012	06583-026	2.0-4.0	ND	5.44	ND	0.797	ND	ND	6.237
	JJ-32 (4.0-6.0)	7/2/2012	06583-027	4.0-6.0	ND	0.097	ND	ND	ND	ND	0.097
	G-7C	6/2/1995	G-7	0-0.5	ND	60	53	48	NA	NA	161
	G-7D	6/5/1995	G-7	2.0-2.5	ND	1.1	0.53	0.54	NA	NA	2.17

TABLE 1
ARSYNCO, INC
CARLSTADT, NJ
TRACT 1 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	AROCHLOR 1268	TOTAL PCBs
JJ-32W	JJ-32W (0-2.0)	4/15/2013	03394-015	0.0-2.0	ND	97.9	ND	ND	ND	ND	97.9
KK-30	KK-30 (0.0-2.0)	8/8/2012	08042-004	0.0-2.0	ND	78	ND	ND	ND	ND	78
	KK-30 (2.0-3.5)	8/8/2012	08042-005	2.0-3.5	ND	37.2	ND	ND	ND	ND	37.2
	KK-30 (3.5-4.0)	8/8/2012	08042-006	3.5-4.0	ND	ND	ND	ND	ND	ND	0
	KK-30 (4.5-6.0)	8/8/2012	08042-007	4.5-6.0	ND	ND	ND	ND	ND	ND	0
KK-30E	KK-30E (0-2.0)	8/23/2013	08259-005	0.0-2.0	ND	0.975	ND	ND	ND	ND	0.975
KK-31	KK-31 (0.0-2.0)	7/2/2012	06583-028	0.0-2.0	ND	56.2	ND	ND	ND	ND	56.2
	KK-31 (2.0-4.0)	7/2/2012	06583-029	2.0-4.0	ND	6.58	ND	ND	ND	ND	6.58
	KK-31 (4.0-6.0)	7/2/2012	06583-030	4.0-6.0	ND	ND	ND	ND	ND	ND	0
G-1DE	G-1DE (0-2.0)	8/23/2013	08259-023	0.0-2.0	ND	2.46	ND	ND	ND	ND	2.46
G-1DN	G-1DN (0-2.0)	8/15/2013	07948-011	0.0-2.0	ND	ND	ND	ND	ND	ND	0
G-1DS	G-1DS (0-2.0)	8/15/2013	07948-010	0.0-2.0	ND	4.97	ND	ND	ND	ND	4.97
G-1DW	G-1DW (0-2.0)	8/15/2013	07948-012	0.0-2.0	ND	1.49	ND	ND	ND	ND	1.49
G-2AN(1)	G-2AN(1) (0-2.0)	8/21/2013	08149-003	0.0-2.0	ND	0.491	ND	ND	ND	ND	0.491
G-2AN(2)	G-2AN(2) (0-2.0)	8/21/2013	08149-004	0.0-2.0	ND	8.47	ND	ND	ND	ND	8.47
IV-6CE	IV-6CE (0.0-2.0)	8/15/2013	07948-002	0.0-2.0	ND	1.07	ND	ND	ND	ND	1.07
IV-6CW	IV-6CW (0.0-2.0)	8/15/2013	07948-001	0.0-2.0	ND	60.3	ND	ND	ND	ND	60.3
Former On-Site Pond TSCA Disposal Area	VI-TP-1A	12/4/2001	E of G-19 (POND)	7.5-8.0'	ND	ND	ND	100	NA	NA	100
	VI-TP-1B	12/4/2001	E of G-19 (POND)	8.0-8.5'	ND	190	ND	ND	NA	NA	190
	VI-TP-2A	12/4/2001	E of G-8 (POND)	7.5-8.0'	ND	540	ND	ND	NA	NA	540
	VI-TP-2B	12/4/2001	E of G-8 (POND)	8.5-9.0'	ND	ND	ND	ND	NA	NA	0
	VI-TP-3A	12/4/2001	E of G-8 (POND)	7.5-8.0'	ND	970	ND	ND	NA	NA	970
	VI-TP-3B	12/4/2001	E of G-8 (POND)	9.0-9.5'	ND	ND	ND	ND	NA	NA	0
Historic Grid Areas	G-1C	6/2/1995	W of G-1	0-0.5	ND	0.59	ND	ND	NA	NA	0.59
	G-1D	6/2/1995	N of G-1	0-0.5	ND	1.4	ND	ND	NA	NA	1.4
	G-1E	5/22/1998	N of G-1	0-0.5	ND	15.7	ND	0.389	NA	NA	16.089
	G-1F	5/22/1998	N of G-1	3.0-3.5	ND	ND	ND	ND	NA	NA	0
	G-1G	5/22/1998	W of G-1	2.5-3	ND	ND	ND	ND	NA	NA	0
	G-1H	5/22/1998	W of G-1	0-0.5	ND	0.127	ND	0.0262	NA	NA	0.1532
	G-4C	6/6/1995	N of G-4	0-0.5	ND	13	ND	ND	NA	NA	13
	G-4D	6/5/1995	N of G-4	2.5-3.0	ND	ND	ND	ND	NA	NA	0
	G-4E	5/22/1998	N of G-4	0-0.5	ND	32	ND	0.667	NA	NA	32.667
	G-4F	5/22/1998	N of G-4	2.5-3.0	ND	2.06	ND	0.117	NA	NA	2.177
	G-13C	5/22/1998	E of G-13	0-0.5	ND	8.84	ND	0.329	NA	NA	9.169
	G-13D	5/22/1998	E of G-13	2.5-3.0	ND	0.0219	ND	ND	NA	NA	0.0219
	G-14A	11/11/1994	G-14	0.5-1.0	ND	0.54	ND	ND	NA	NA	0.54
	G-14B	11/11/1994	G-14	2.5-3.0	ND	ND	ND	ND	NA	NA	0
	G-23B	11/11/1994	G-23	2.0-2.5	ND	0.63	ND	0.23	NA	NA	0.86
	G-24B	11/11/1994	G-24	2.75-3.25	ND	0.14	0.13	0.11	NA	NA	0.38
	G-25A	11/14/1994	G-25	0.5-1.0	ND	0.94	ND	ND	NA	NA	0.94
	G-25B	11/14/1994	G-25	2.0-2.5	ND	ND	ND	ND	NA	NA	0
	G-25C	5/8/2002	S Side of G-25	1.0-1.5'	ND	ND	ND	ND	NA	NA	0
	G-26A	11/14/1994	G-26	0.25-0.75	ND	0.16	ND	ND	NA	NA	0.16
	G-26B	11/14/1994	G-26	2.0-2.5	ND	0.14	ND	ND	NA	NA	0.14
	B2-FD	12/6/2001	G-23	1.5-2.0'	ND	31	ND	ND	NA	NA	31
	PP-14A	5/22/1998	E of G-13	2.5-3.0	ND	0.16	0.163	0.0352	NA	NA	0.3582
	PP-14	3/3/1993	E of G-13	0-0.5	ND	0.8	0.49	ND	NA	NA	1.29
	PP-15	3/3/1993	G-23	0.0-0.5	ND	1.3	ND	ND	NA	NA	1.3
	PP-16	3/3/1993	G-24	0.0-0.5	ND	0.057	0.036	ND	NA	NA	0.093

ppm = Parts Per Million

J = Estimated value, below reporting limit, but greater than zero

D = The compound was reported from the Diluted analysis

ND = Not Detected

BOLD = Concentration is ≥ 50 ppm and <500 ppm

BOLD = Concentration is ≥ 500 ppm

TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
O-48	O-48 (0-1.0)	9/26/2013	09481-009	0.0-1.0	ND	ND	ND	ND	ND	0
	O-48 (1.0-2.0)	9/26/2013	09481-010	1.0-2.0	ND	ND	ND	ND	ND	0
	O-48 (2.0-3.0)	9/26/2013	09481-011	2.0-3.0	ND	ND	ND	ND	ND	0
	O-48 (3.0-4.0)	9/26/2013	09481-012	3.0-4.0	ND	ND	ND	ND	ND	0
P-48	P-48 (0-1.0)	10/12/2012	10413-013	0.0-1.0	ND	ND	ND	ND	ND	0
	P-48 (1.0-2.0)	10/12/2012	10413-014	1.0-2.0	ND	ND	ND	ND	ND	0
	P-48 (2.0-3.0)	10/12/2012	10413-015	2.0-3.0	ND	ND	ND	ND	ND	0
	P-48 (3.0-4.0)	10/12/2012	10413-016	3.0-4.0	ND	ND	ND	ND	ND	0
P-48N	P-48N (0-1.0)	10/28/2013	10707-001	0.0-1.0	ND	1.82	ND	ND	ND	1.82
	P-48N (1.0-2.0)	10/28/2013	10707-002	1.0-2.0	ND	0.499	ND	ND	ND	0.499
P-49	P-49 (0-1.0)	9/26/2013	09481-005	0.0-1.0	ND	ND	0.354	ND	ND	0.354
	P-49 (1.0-2.0)	9/26/2013	09481-006	1.0-2.0	ND	ND	ND	ND	ND	0
P-50	P-50 (0-1.0)	9/26/2013	09481-007	0.0-1.0	ND	0.113	0.076	ND	ND	0.189
	P-50 (1.0-2.0)	9/26/2013	09481-008	1.0-2.0	ND	ND	ND	ND	ND	0
Q-47	Q-47 (0-1.0)	8/30/2012	08824-013	0.0-1.0	ND	2.67	ND	ND	ND	2.67
	Q-47 (1.0-2.0)	8/30/2012	08824-014	1.0-2.0	ND	204	ND	ND	ND	204
	Q-47 (2.0-3.0)	8/30/2012	08824-015	2.0-3.0	ND	3.78	ND	ND	ND	3.78
	Q-47 (3.0-4.0)	8/30/2012	08824-016	3.0-4.0	ND	0.136	ND	ND	ND	0.136
Q-47N(1)	Q-47N(1) (7.0-8.0)	9/24/2013	09406-021	7.0-8.0	ND	ND	ND	ND	ND	0
Q-47	Q-47 (4.0-5.0)	9/27/2013	09542-011	4.0-5.0	ND	0.077	ND	ND	ND	0.077
	Q-47 (5.0-6.0)	9/27/2013	09542-012	5.0-6.0	ND	ND	ND	ND	ND	0
Q-47N(2)	Q-47N(2) (5.0-6.0)	9/27/2013	09542-013	5.0-6.0	ND	0.064	ND	ND	ND	0.064
Q-48	Q-48 (0-1.0)	10/12/2012	10413-009	0.0-1.0	ND	79.7	ND	ND	ND	79.7
	Q-48 (1.0-2.0)	10/12/2012	10413-010	1.0-2.0	ND	5.71	ND	ND	ND	5.71
	Q-48 (2.0-3.0)	10/12/2012	10413-011	2.0-3.0	ND	ND	ND	ND	ND	0
	Q-48 (3.0-4.0)	10/12/2012	10413-012	3.0-4.0	ND	ND	ND	ND	ND	0
Q-49	Q-49 (0-1.0)	9/26/2013	09481-001	0.0-1.0	ND	ND	ND	ND	ND	0
	Q-49 (1.0-2.0)	9/26/2013	09481-002	1.0-2.0	ND	ND	ND	ND	ND	0
Q-50	Q-50 (0-1.0)	9/26/2013	09481-003	0.0-1.0	ND	ND	0.123	ND	ND	0.123
	Q-50 (1.0-2.0)	9/26/2013	09481-004	1.0-2.0	ND	ND	ND	ND	ND	0
Q-53	T2-G13(B)	12/12/1995	G-11	2-2.5	ND	ND	0.118	ND	NA	0.118
	T2-G13(A)	12/12/1995	G-11	0-0.5	ND	ND	0.0514	ND	NA	0.0514
	T2-G13(N)	12/12/1995	G-11	6.5-7	ND	ND	ND	ND	NA	0
R-46R	R-46R (2.0-3.0)	9/23/2013	09369-011	2.0-3.0	ND	0.126	ND	ND	ND	0.126
	R-46R (3.0-4.0)	9/23/2013	09369-012	3.0-4.0	ND	0.027	ND	ND	ND	0.027
	R-46R (4.0-5.0)	9/23/2013	09369-013	4.0-5.0	ND	ND	ND	ND	ND	0
R-47	R-47 (0-1.0)	10/12/2012	10413-005	0.0-1.0	ND	ND	ND	ND	ND	0
	R-47 (1.0-2.0)	10/12/2012	10413-006	1.0-2.0	ND	2.38	ND	ND	ND	2.38
	R-47 (2.0-3.0)	10/12/2012	10413-007	2.0-3.0	ND	ND	ND	ND	ND	0
	R-47 (3.0-4.0)	10/12/2012	10413-008	3.0-4.0	ND	ND	ND	ND	ND	0
R-47R	R-47R (0-1.0)	9/12/2013	08996-004	0.0-1.0	ND	35.5	30.4	ND	ND	65.9
	R-47R (1.0-2.0)	9/12/2013	08996-005	1.0-2.0	ND	1.54	ND	ND	ND	1.54
R-48	R-48 (0-1.0)	10/12/2012	10413-001	0.0-1.0	ND	ND	ND	ND	ND	0
	R-48 (1.0-2.0)	10/12/2012	10413-002	1.0-2.0	ND	ND	ND	ND	ND	0
	R-48 (2.0-3.0)	10/12/2012	10413-003	2.0-3.0	ND	ND	ND	ND	ND	0
	R-48 (3.0-4.0)	10/12/2012	10413-004	3.0-4.0	ND	ND	ND	ND	ND	0
R-48R	R-48R (0-1.0)	9/25/2013	09441-003	0.0-1.0	ND	23.3	ND	ND	ND	23.3
	R-48R (1.0-2.0)	9/25/2013	09441-004	1.0-2.0	ND	ND	ND	ND	ND	0
R-49	R-49 (0-1.0)	9/25/2013	09441-001	0.0-1.0	ND	2.57	ND	ND	ND	2.57
	R-49 (1.0-2.0)	9/25/2013	09441-002	1.0-2.0	ND	ND	ND	ND	ND	0
R-50	R-50 (0-1.0)	9/26/2013	09481-015	0.0-1.0	ND	ND	ND	ND	ND	0
	R-50 (1.0-2.0)	9/26/2013	09481-016	1.0-2.0	ND	0.43	ND	ND	ND	0.43
	R-50 (2.0-3.0)	11/12/2013	11284-005	2.0-3.0	ND	ND	ND	ND	ND	0
	R-50 (3.0-4.0)	11/12/2013	11284-006	3.0-4.0	ND	ND	ND	ND	ND	0
R-51	R-51 (0-1.0)	11/12/2013	11284-007	0.0-1.0	ND	0.407	ND	ND	ND	0.407
R-52	R-52 (0-1.0)	12/11/2013	12303-010	0.0-1.0	ND	0.118	0.22	ND	ND	0.338

TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
S-46	S-46 (0-1.0)	9/24/2013	09406-017	0.0-1.0	ND	0.865	ND	ND	ND	0.865
	S-46 (1.0-2.0)	9/24/2013	09406-018	1.0-2.0	ND	1.54	ND	ND	ND	1.54
	S-46 (2.0-3.0)	9/24/2013	09406-019	2.0-3.0	ND	ND	ND	ND	ND	0
	S-46 (3.0-4.0)	9/24/2013	09406-020	3.0-4.0	ND	0.03	ND	ND	ND	0.03
S-47	S-47 (0-1.0)	9/12/2013	08996-006	0.0-1.0	ND	10.9	10.5	ND	ND	21.4
	S-47 (1.0-2.0)	9/12/2013	08996-007	1.0-2.0	ND	0.271	ND	ND	ND	0.271
	S-47 (2.0-3.0)	9/12/2013	08996-008	2.0-3.0	ND	ND	ND	ND	ND	0
	S-47 (3.0-4.0)	9/12/2013	08996-009	3.0-4.0	ND	ND	ND	ND	ND	0
S-48	S-48 (0-1.0)	9/25/2013	09441-007	0.0-1.0	ND	4.9	ND	ND	ND	4.9
	S-48 (1.0-2.0)	9/25/2013	09441-008	1.0-2.0	ND	1.04	ND	ND	ND	1.04
	S-48 (2.0-3.0)	10/31/2013	10867-010	2.0-3.0	ND	ND	ND	ND	ND	0
	S-48 (3.0-4.0)	10/31/2013	10867-011	3.0-4.0	ND	ND	ND	ND	ND	0
S-49	S-49 (0-1.0)	9/25/2013	09441-005	0.0-1.0	ND	1.75	ND	ND	ND	1.75
	S-49 (1.0-2.0)	9/25/2013	09441-006	1.0-2.0	ND	0.127	ND	ND	ND	0.127
S-50	S-50 (0-1.0)	9/26/2013	09481-013	0.0-1.0	ND	3.45	1.71	ND	ND	5.16
	S-50 (1.0-2.0)	9/26/2013	09481-014	1.0-2.0	ND	0.153	ND	ND	ND	0.153
S-51	S-51 (0-1.0)	11/12/2013	11284-009	0.0-1.0	ND	4.86	ND	ND	ND	4.86
	S-51 (1.0-2.0)	11/12/2013	11284-010	1.0-2.0	ND	ND	ND	ND	ND	0
S-52	S-52 (0-1.0)	12/11/2013	12303-007	0.0-1.0	ND	1.94	1.98	ND	ND	3.92
	T2-G11 (A)	9/6/1995	G-11	0-0.5'	ND	14	ND	1.7	NA	15.7
	T2-G11 (B)	9/6/1995	G-11	2-2.5'	ND	2.7	ND	0.2	NA	2.9
T-45	T-45 (0-1.0)	8/27/2012	08677-013	0.0-1.0	ND	8.35	ND	ND	ND	8.35
	T-45 (1.0-2.0)	8/27/2012	08677-014	1.0-2.0	ND	5.29	ND	ND	ND	5.29
	T-45 (2.0-3.0)	8/27/2012	08677-015	2.0-3.0	ND	3.38	ND	ND	ND	3.38
	T-45 (3.0-4.0)	8/27/2012	08677-016	3.0-4.0	ND	0.077	ND	ND	ND	0.077
	T-45 (4.0-5.0)	10/25/2013	10679-015	4.0-5.0	ND	0.1	ND	ND	ND	0.1
T-46	T-46 (0-1.0)	9/23/2013	09369-007	0.0-1.0	ND	2.05	ND	ND	ND	2.05
	T-46 (1.0-2.0)	9/23/2013	09369-008	1.0-2.0	ND	0.813	ND	ND	ND	0.813
	T-46 (2.0-3.0)	9/23/2013	09369-009	2.0-3.0	ND	ND	ND	ND	ND	0
	T-46 (3.0-4.0)	9/23/2013	09369-010	3.0-4.0	ND	ND	ND	ND	ND	0
T-47	T-47 (0-1.0)	9/23/2013	09369-001	0.0-1.0	ND	1.83	ND	ND	ND	1.83
	T-47 (1.0-2.0)	9/23/2013	09369-002	1.0-2.0	ND	1.16	ND	ND	ND	1.16
T-48	T-48 (0-1.0)	9/27/2013	09542-009	0.0-1.0	ND	11	9.5	ND	ND	20.5
	T-48 (1.0-2.0)	9/27/2013	09542-010	1.0-2.0	ND	ND	ND	ND	ND	0
	T-48 (2.0-3.0)	11/26/2013	11822-001	2.0-3.0	ND	ND	ND	ND	ND	0
T-49	T-49 (0-1.0)	10/31/2013	10867-012	0.0-1.0	ND	3.41	ND	ND	ND	3.41
	T-49 (1.0-2.0)	10/31/2013	10867-013	1.0-2.0	ND	0.336	ND	ND	ND	0.336
	T-49 (2.0-3.0)	11/26/2013	11822-002	2.0-3.0	ND	ND	ND	ND	ND	0
T-50	T-50 (0-1.0)	10/31/2013	10867-014	0.0-1.0	ND	1.76	ND	ND	ND	1.76
	T-50 (1.0-2.0)	10/31/2013	10867-015	1.0-2.0	ND	2.5	ND	ND	ND	2.5
T-51	T-51 (0-1.0)	11/12/2013	11284-011	0.0-1.0	ND	3.91	ND	ND	ND	3.91
	T-51 (1.0-2.0)	11/12/2013	11284-012	1.0-2.0	ND	ND	ND	ND	ND	0
T-52	T-52 (0-1.0)	12/11/2013	12303-004	0.0-1.0	ND	ND	ND	ND	ND	0
T-56	T2-G14(B)	12/12/1995	G-12	2-2.5	ND	ND	0.198	ND	NA	0.198
	T2-G14(A)	12/12/1995	G-12	0-0.5	ND	ND	0.153	ND	NA	0.153
U-45	U-45 (0-1.0)	8/27/2012	08677-009	0.0-1.0	ND	44.7	ND	ND	ND	44.7
	U-45 (1.0-2.0)	8/27/2012	08677-010	1.0-2.0	ND	8.33	ND	ND	ND	8.33
	U-45 (2.0-3.0)	8/27/2012	08677-011	2.0-3.0	ND	1.38	ND	ND	ND	1.38
	U-45 (3.0-4.0)	8/27/2012	08677-012	3.0-4.0	ND	0.21	ND	ND	ND	0.21
	U-45 (4.0-5.0)	9/26/2013	09481-017	4.0-5.0	ND	ND	ND	ND	ND	0
U-45R	U-45R (2.0-3.0)	10/25/2013	10679-012	2.0-3.0	ND	0.065	ND	0.031	ND	0.096
	U-45R (3.0-4.0)	10/25/2013	10679-013	3.0-4.0	ND	0.023	J	ND	ND	0.023
U-45N(1)	U-45N(1) (5.0-6.0)	10/25/2013	10679-014	5.0-6.0	ND	ND	ND	ND	ND	0
U-45N(2)	U-45N(2) (5.0-6.0)	9/25/2013	09441-009	5.0-6.0	ND	ND	0.028	0.049	ND	0.077
U-46	U-46 (0-1.0)	9/24/2013	09406-013	0.0-1.0	ND	5.77	ND	ND	ND	5.77
	U-46 (1.0-2.0)	9/24/2013	09406-014	1.0-2.0	ND	0.248	ND	ND	ND	0.248
	U-46 (2.0-3.0)	9/24/2013	09406-015	2.0-3.0	ND	ND	ND	ND	ND	0
	U-46 (3.0-4.0)	9/24/2013	09406-016	3.0-4.0	ND	ND	ND	ND	ND	0

TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
U-47	U-47 (0-1.0)	9/23/2013	09369-003	0.0-1.0	ND	18.1	ND	ND	ND	18.1
	U-47 (1.0-2.0)	9/23/2013	09369-004	1.0-2.0	ND	0.422	ND	ND	ND	0.422
	U-47 (2.0-3.0)	10/30/2013	10796-014	2.0-3.0	ND	0.355	ND	ND	ND	0.355
	U-47 (3.0-4.0)	10/30/2013	10796-015	3.0-4.0	ND	ND	ND	ND	ND	0
U-48	U-48 (0-1.0)	9/27/2013	09542-007	0.0-1.0	ND	3.26	3.56	ND	ND	6.82
	U-48 (1.0-2.0)	9/27/2013	09542-008	1.0-2.0	ND	1.45	0.862	ND	ND	2.312
	U-48 (2.0-3.0)	10/30/2013	10796-012	2.0-3.0	ND	9.63	ND	ND	ND	9.63
	U-48 (3.0-4.0)	10/30/2013	10796-013	3.0-4.0	ND	ND	ND	ND	ND	0
U-49	U-49 (0-1.0)	10/30/2013	10796-010	0.0-1.0	ND	4.16	ND	ND	ND	4.16
	U-49 (1.0-2.0)	10/30/2013	10796-011	1.0-2.0	ND	0.482	ND	ND	ND	0.482
	U-49 (2.0-3.0)	11/26/2013	11822-003	2.0-3.0	ND	ND	ND	ND	ND	0
U-50	U-50 (0-1.0)	10/30/2013	10796-008	0.0-1.0	ND	3.2	ND	ND	ND	3.2
	U-50 (1.0-2.0)	10/30/2013	10796-009	1.0-2.0	ND	50.2	ND	ND	ND	50.2
	U-50 (2.0-3.0)	11/26/2013	11822-004	2.0-3.0	ND	ND	ND	ND	ND	0
U-51	U-51 (0-1.0)	11/26/2013	11822-012	0.0-1.0	ND	4.94	ND	ND	ND	4.94
	U-51 (1.0-2.0)	11/26/2013	11822-013	1.0-2.0	ND	0.614	ND	ND	ND	0.614
	U-51 (2.0-3.0)	1/8/2014	00190-006	2.0-3.0	ND	0.421	ND	ND	ND	0.421
U-52	U-52 (0-1.0)	12/11/2013	12303-001	0.0-1.0	ND	3.97	ND	ND	ND	3.97
	U-52 (1.0-2.0)	12/11/2013	12303-002	1.0-2.0	ND	ND	ND	ND	ND	0
U-56	T2-G12 (B)	9/7/1995	G-12	2-2.5'	ND	4.8	ND	0.41	NA	5.21
	T2-G12 (A)	9/7/1995	G-12	0-0.5'	ND	0.37	0.39	0.11	NA	0.87
	T2-G12(C)	8/30/1996	G-12	2.5-3.0'	ND	ND	0.172	0.0816	NA	0.2536
	T2-G12(C)	5/8/2002	G-12	3.0-3.5'	ND	ND	ND	ND	NA	0
	T2-G12(D)	5/8/2002	G-12	0-0.5'	ND	ND	ND	ND	NA	0
	T2-G12(E)	5/8/2002	G-12	2-2.5'	ND	ND	ND	ND	NA	0
V-44	V-44 (0-1.0)	8/27/2012	08677-001	0.0-1.0	ND	52.5	ND	41.2	ND	93.7
	V-44 (1.0-2.0)	8/27/2012	08677-002	1.0-2.0	ND	19.7	ND	31.2	ND	50.9
	V-44 (2.0-3.0)	8/27/2012	08677-003	2.0-3.0	ND	1.1	ND	1.07	ND	2.17
	V-44 (3.0-4.0)	8/27/2012	08677-004	3.0-4.0	ND	0.067	ND	ND	ND	0.067
V-44N	V-44N (4.0-5.0)	9/25/2013	09441-010	4.0-5.0	ND	0.03	ND	0.023	ND	0.053
	V-44N (5.0-6.0)	9/25/2013	09441-011	5.0-6.0	ND	0.027	ND	ND	ND	0.027
V-45	V-45 (0-1.0)	10/11/2012	10376-017	0.0-1.0	ND	17.2	ND	6.01	ND	23.21
	V-45 (1.0-2.0)	10/11/2012	10376-018	1.0-2.0	ND	ND	ND	ND	ND	0
	V-45 (2.0-3.0)	10/11/2012	10376-019	2.0-3.0	ND	ND	ND	ND	ND	0
	V-45 (3.0-4.0)	10/11/2012	10376-020	3.0-4.0	ND	ND	ND	ND	ND	0
V-46	V-46 (0-1.0)	9/24/2013	09406-011	0.0-1.0	ND	ND	ND	ND	ND	0
	V-46 (1.0-2.0)	9/24/2013	09406-012	1.0-2.0	ND	1.56	ND	ND	ND	1.56
	V-46 (2.0-3.0)	10/30/2013	10796-020	2.0-3.0	ND	ND	ND	ND	ND	0
	V-46 (3.0-4.0)	10/30/2013	10796-021	3.0-4.0	ND	ND	ND	ND	ND	0
V-47	V-47 (0-1.0)	9/23/2013	09369-005	0.0-1.0	ND	1.59	1.65	ND	ND	3.24
	V-47 (1.0-2.0)	9/23/2013	09369-006	1.0-2.0	ND	1.86	ND	ND	ND	1.86
	V-47 (2.0-3.0)	10/30/2013	10796-018	2.0-3.0	ND	ND	ND	ND	ND	0
	V-47 (3.0-4.0)	10/30/2013	10796-019	3.0-4.0	ND	ND	ND	ND	ND	0
V-48	V-48 (0-1.0)	9/27/2013	09542-005	0.0-1.0	ND	4.1	3.13	ND	ND	7.23
	V-48 (1.0-2.0)	9/27/2013	09542-006	1.0-2.0	ND	2.26	1.13	ND	ND	3.39
	V-48 (2.0-3.0)	10/30/2013	10796-016	2.0-3.0	ND	ND	ND	ND	ND	0
	V-48 (3.0-4.0)	10/30/2013	10796-017	3.0-4.0	ND	ND	ND	ND	ND	0
V-49	V-49 (0-1.0)	10/30/2013	10796-004	0.0-1.0	ND	8.02	ND	ND	ND	8.02
	V-49 (1.0-2.0)	10/30/2013	10796-005	1.0-2.0	ND	12	ND	ND	ND	12
	V-49 (2.0-3.0)	10/30/2013	10796-006	2.0-3.0	ND	ND	ND	ND	ND	0
	V-49 (3.0-4.0)	10/30/2013	10796-007	3.0-4.0	ND	0.082	ND	ND	ND	0.082
V-50	V-50 (0-1.0)	10/30/2013	10796-001	0.0-1.0	ND	8.64	ND	ND	ND	8.64
	V-50 (1.0-2.0)	10/30/2013	10796-002	1.0-2.0	ND	5.02	ND	ND	ND	5.02
	V-50 (2.0-3.0)	10/30/2013	10796-003	2.0-3.0	ND	1.18	ND	ND	ND	1.18
V-51	V-51 (0-1.0)	11/26/2013	11822-010	0.0-1.0	ND	7.84	ND	ND	ND	7.84
	V-51 (1.0-2.0)	11/26/2013	11822-011	1.0-2.0	ND	0.9	ND	ND	ND	0.9
	V-51 (2.0-3.0)	1/8/2014	00190-005	2.0-3.0	ND	ND	ND	ND	ND	0
V-52	V-52 (0-1.0)	1/9/2014	00234-001	0.0-1.0	ND	1.4	ND	ND	ND	1.4
	V-52 (1.0-2.0)	1/9/2014	00234-002	1.0-2.0	ND	80.7	ND	ND	ND	80.7

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W-43	W-43 (0-1.0)	8/27/2012	08677-005	0.0-1.0	ND	ND	43.4	40.8	ND	84.2
	W-43 (1.0-2.0)	8/27/2012	08677-006	1.0-2.0	591	ND	ND	ND	ND	591
	W-43 (2.0-3.0)	8/27/2012	08677-007	2.0-3.0	28.6	ND	ND	ND	ND	28.6
	W-43 (3.0-4.0)	8/27/2012	08677-008	3.0-4.0	4.58	ND	ND	ND	ND	4.58
	W-43 (3.0-4.0)	10/28/2013	10707-003	3.0-4.0	ND	1.1	ND	0.894	ND	1.994
	W-43 (4.0-5.0)	10/28/2013	10707-004	4.0-5.0	ND	0.051	J ND	0.051	J ND	0.102
	W-43 (5.0-6.0)	10/28/2013	10707-005	5.0-6.0	ND	ND	ND	ND	ND	0
	W-43 (6.0-7.0)	10/28/2013	10707-006	6.0-7.0	ND	0.141	ND	ND	ND	0.141
W-44	W-44 (0-1.0)	10/11/2012	10376-013	0.0-1.0	ND	44.9	ND	ND	ND	44.9
	W-44 (1.0-2.0)	10/11/2012	10376-014	1.0-2.0	ND	ND	ND	ND	ND	0
	W-44 (2.0-3.0)	10/11/2012	10376-015	2.0-3.0	ND	ND	ND	ND	ND	0
	W-44 (3.0-4.0)	10/11/2012	10376-016	3.0-4.0	ND	ND	ND	ND	ND	0
W-45	W-45 (0-1.0)	10/11/2012	10376-009	0.0-1.0	ND	9.16	ND	ND	ND	9.16
	W-45 (1.0-2.0)	10/11/2012	10376-010	1.0-2.0	ND	1.36	ND	ND	ND	1.36
	W-45 (2.0-3.0)	10/11/2012	10376-011	2.0-3.0	ND	ND	ND	ND	ND	0
	W-45 (3.0-4.0)	10/11/2012	10376-012	3.0-4.0	ND	ND	ND	ND	ND	0
W-46	W-46 (0-1.0)	9/24/2013	09406-003	0.0-1.0	ND	3.98	3.37	ND	ND	7.35
	W-46 (1.0-2.0)	9/24/2013	09406-004	1.0-2.0	ND	ND	0.828	ND	ND	0.828
	W-46 (2.0-3.0)	10/30/2013	10796-022	2.0-3.0	ND	ND	ND	ND	ND	0
	W-46 (3.0-4.0)	10/30/2013	10796-023	3.0-4.0	ND	ND	ND	ND	ND	0
W-47	W-47 (0-1.0)	9/24/2013	09406-001	0.0-1.0	ND	ND	3.2	ND	ND	3.2
	W-47 (1.0-2.0)	9/24/2013	09406-002	1.0-2.0	ND	ND	ND	ND	ND	0
W-48	W-48 (0-1.0)	10/17/2013	10361-007	0.0-1.0	ND	9.91	ND	ND	ND	9.91
	W-48 (1.0-2.0)	10/17/2013	10361-008	1.0-2.0	ND	0.533	ND	ND	ND	0.533
W-49	W-49 (0-1.0)	11/11/2013	11243-001	0.0-1.0	ND	2.65	ND	ND	ND	2.65
	W-49 (1.0-2.0)	11/11/2013	11243-002	1.0-2.0	ND	0.644	ND	ND	ND	0.644
	W-49 (2.0-3.0)	1/8/2014	00190-002	2.0-3.0	ND	ND	ND	ND	ND	0
	T2-G9 (A)	9/6/1995	G-9	0-0.5'	ND	2.1	ND	0.14	NA	2.24
	T2-G9 (B)	9/6/1995	G-9	2-2.5'	ND	7.3	ND	0.57	NA	7.87
	T2-G9(N)	6/26/1996	G-9	4-4.5'	ND	ND	ND	ND	NA	0
W-50	W-50 (0-1.0)	11/26/2013	11822-008	0.0-1.0	ND	58.7	D ND	ND	ND	58.7
	W-50 (1.0-2.0)	11/26/2013	11822-009	1.0-2.0	ND	ND	ND	ND	ND	0
	W-50 (2.0-3.0)	1/8/2014	00190-003	2.0-3.0	ND	ND	ND	ND	ND	0
W-51	W-51 (0-1.0)	11/26/2013	11822-006	0.0-1.0	ND	6.37	ND	ND	ND	6.37
	W-51 (1.0-2.0)	11/26/2013	11822-007	1.0-2.0	ND	0.088	ND	ND	ND	0.088
	W-51 (2.0-3.0)	1/8/2014	00190-004	2.0-3.0	0.071	ND	ND	ND	ND	0.071
W-52	W-52 (0-1.0)	1/9/2014	00234-003	0.0-1.0	ND	7.01	ND	ND	ND	7.01
	W-52 (1.0-2.0)	1/9/2014	00234-004	1.0-2.0	ND	ND	ND	ND	ND	0
X-43	X-43 (0-1.0)	8/27/2012	08677-017	0.0-1.0	964	ND	ND	ND	ND	964
	X-43 (1.0-2.0)	8/27/2012	08677-018	1.0-2.0	ND	12.5	ND	ND	ND	12.5
	X-43 (2.0-3.0)	8/27/2012	08677-019	2.0-3.0	60.6	ND	ND	ND	ND	60.6
	X-43 (3.0-4.0)	8/27/2012	08677-020	3.0-4.0	20.4	ND	ND	ND	ND	20.4
	X-43 (4.0-5.0)	10/10/2012	10332-017	4.0-5.0	ND	ND	ND	ND	ND	0
	X-43 (5.0-6.0)	10/10/2012	10332-018	5.0-6.0	ND	0.067	ND	ND	ND	0.067
	X-43 (6.0-7.0)	10/10/2012	10332-019	6.0-7.0	ND	0.07	ND	ND	ND	0.07
X-44	X-44 (0-1.0)	10/11/2012	10376-005	0.0-1.0	ND	142	ND	ND	ND	142
	X-44 (1.0-2.0)	10/11/2012	10376-006	1.0-2.0	ND	ND	ND	ND	ND	0
	X-44 (2.0-3.0)	10/11/2012	10376-007	2.0-3.0	ND	ND	ND	ND	ND	0
	X-44 (3.0-4.0)	10/11/2012	10376-008	3.0-4.0	ND	ND	ND	ND	ND	0
X-44N	X-44N (3.0-4.0)	10/17/2013	10361-001	3.0-4.0	ND	0.037	J ND	ND	ND	0.037
X-45	X-45 (0-1.0)	10/11/2012	10376-001	0.0-1.0	ND	9.18	ND	ND	ND	9.18
	X-45 (1.0-2.0)	10/11/2012	10376-002	1.0-2.0	ND	ND	ND	ND	ND	0
	X-45 (2.0-3.0)	10/11/2012	10376-003	2.0-3.0	ND	ND	ND	ND	ND	0
	X-45 (3.0-4.0)	10/11/2012	10376-004	3.0-4.0	ND	ND	ND	ND	ND	0
X-46	X-46 (0-1.0)	9/24/2013	09406-009	0.0-1.0	ND	2.21	ND	ND	ND	2.21
	X-46 (1.0-2.0)	9/24/2013	09406-010	1.0-2.0	ND	0.654	ND	ND	ND	0.654
	X-46 (2.0-3.0)	10/31/2013	10867-005	2.0-3.0	ND	0.297	ND	ND	ND	0.297
	X-46 (3.0-4.0)	10/31/2013	10867-006	3.0-4.0	ND	ND	ND	ND	ND	0
X-47	X-47 (0-1.0)	10/17/2013	10361-005	0.0-1.0	ND	9.6	ND	ND	ND	9.6
	X-47 (1.0-2.0)	10/17/2013	10361-006	1.0-2.0	ND	0.794	ND	ND	ND	0.794
	X-47 (2.0-3.0)	10/31/2013	10867-007	2.0-3.0	ND	ND	ND	ND	ND	0

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X-48	X-48 (0-1.0)	10/24/2013	10595-001	0.0-1.0	ND	3.55	ND	ND	ND	3.55
	X-48 (1.0-2.0)	10/24/2013	10595-002	1.0-2.0	ND	0.576	ND	ND	ND	0.576
	X-48 (2.0-3.0)	10/31/2013	10867-009	2.0-3.0	ND	0.028	J	ND	ND	0.028
X-49	X-49 (0-1.0)	11/11/2013	11243-003	0.0-1.0	ND	3.24	ND	ND	ND	3.24
	X-49 (1.0-2.0)	11/11/2013	11243-004	1.0-2.0	ND	2.73	ND	ND	ND	2.73
	X-49 (2.0-3.0)	1/9/2014	00234-009	2.0-3.0	ND	ND	ND	ND	ND	0
X-50	X-50 (0-1.0)	1/9/2014	00234-007	0.0-1.0	ND	2.29	ND	ND	ND	2.29
	X-50 (1.0-2.0)	1/9/2014	00234-008	1.0-2.0	ND	ND	ND	ND	ND	0
X-51	X-51 (0-1.0)	1/9/2014	00234-005	0.0-1.0	112	D	84.7	D	ND	196.7
	X-51 (1.0-2.0)	1/9/2014	00234-006	1.0-2.0	0.764	ND	ND	ND	ND	0.764
Y-42	Y-42 (0-1.0)	8/27/2012	08677-025	0.0-1.0	488	ND	ND	140	ND	628
	Y-42 (1.0-2.0)	8/27/2012	08677-026	1.0-2.0	728	ND	ND	ND	ND	728
	Y-42 (2.0-3.0)	8/27/2012	08677-027	2.0-3.0	261	ND	ND	ND	ND	261
	Y-42 (3.0-4.0)	8/27/2012	08677-028	3.0-4.0	113	ND	ND	ND	ND	113
	Y-42 (4.0-5.0)	10/10/2012	10332-001	4.0-5.0	ND	0.742	ND	ND	ND	0.742
	Y-42 (5.0-6.0)	10/10/2012	10332-002	5.0-6.0	ND	1.29	ND	ND	ND	1.29
	Y-42 (6.0-7.0)	10/10/2012	10332-003	6.0-7.0	ND	0.026	J	ND	ND	0.026
Y-43	Y-43 (0-1.0)	8/27/2012	08677-021	0.0-1.0	ND	688	ND	ND	ND	688
	Y-43 (1.0-2.0)	8/27/2012	08677-022	1.0-2.0	ND	647	ND	ND	ND	647
	Y-43 (2.0-3.0)	8/27/2012	08677-023	2.0-3.0	117	ND	ND	ND	ND	117
	Y-43 (3.0-4.0)	8/27/2012	08677-024	3.0-4.0	14.7	ND	ND	ND	ND	14.7
	Y-43 (4.0-5.0)	10/10/2012	10332-005	4.0-5.0	ND	0.093	ND	ND	ND	0.093
	Y-43 (5.0-6.0)	10/10/2012	10332-006	5.0-6.0	ND	0.042	J	ND	ND	0.042
	Y-43 (6.0-7.0)	10/10/2012	10332-007	6.0-7.0	ND	0.303	ND	ND	ND	0.303
Y-43S	Y-43S (6.0-7.0)	10/17/2013	10361-003	6.0-7.0	ND	ND	ND	ND	ND	0
Y-44	Y-44 (0-1.0)	10/10/2012	10332-009	0.0-1.0	ND	6.18	ND	ND	ND	6.18
	Y-44 (1.0-2.0)	10/10/2012	10332-010	1.0-2.0	ND	1.28	ND	ND	ND	1.28
	Y-44 (2.0-3.0)	10/10/2012	10332-011	2.0-3.0	ND	ND	ND	ND	ND	0
	Y-44 (3.0-4.0)	10/10/2012	10332-012	3.0-4.0	ND	ND	ND	ND	ND	0
Y-45	Y-45 (0-1.0)	10/10/2012	10332-013	0.0-1.0	ND	8.63	ND	ND	ND	8.63
	Y-45 (1.0-2.0)	10/10/2012	10332-014	1.0-2.0	ND	1.81	ND	ND	ND	1.81
	Y-45 (2.0-3.0)	10/10/2012	10332-015	2.0-3.0	ND	ND	ND	ND	ND	0
	Y-45 (3.0-4.0)	10/10/2012	10332-016	3.0-4.0	ND	ND	ND	ND	ND	0
Y-46	Y-46 (0-1.0)	9/24/2013	09406-007	0.0-1.0	ND	ND	6.89	ND	ND	6.89
	Y-46 (1.0-2.0)	9/24/2013	09406-008	1.0-2.0	ND	1.94	ND	ND	ND	1.94
	Y-46 (2.0-3.0)	10/31/2013	10867-001	2.0-3.0	ND	0.277	ND	ND	ND	0.277
	Y-46 (3.0-4.0)	10/31/2013	10867-002	3.0-4.0	ND	ND	ND	ND	ND	0
Y-47	Y-47 (0-1.0)	10/24/2013	10595-003	0.0-1.0	ND	2.43	ND	ND	ND	2.43
	Y-47 (1.0-2.0)	10/24/2013	10595-004	1.0-2.0	ND	2.95	ND	ND	ND	2.95
	Y-47 (2.0-3.0)	10/31/2013	10867-003	2.0-3.0	ND	ND	ND	ND	ND	0
Y-48	Y-48 (0-1.0)	10/24/2013	10595-005	0.0-1.0	ND	5.11	ND	ND	ND	5.11
	Y-48 (1.0-2.0)	10/24/2013	10595-006	1.0-2.0	ND	1.43	ND	ND	ND	1.43
	Y-48 (2.0-3.0)	10/31/2013	10867-004	2.0-3.0	ND	ND	ND	ND	ND	0
Y-49	Y-49 (0-1.0)	11/11/2013	11243-005	0.0-1.0	ND	ND	ND	ND	ND	0
	Y-49 (1.0-2.0)	11/11/2013	11243-006	1.0-2.0	ND	0.711	ND	ND	ND	0.711
Y-50	Y-50 (0-1.0)	12/11/2013	12303-016	0.0-1.0	ND	4.7	ND	ND	ND	4.7
	Y-50 (1.0-2.0)	12/11/2013	12303-017	1.0-2.0	ND	126	D	ND	ND	126
	Y-50 (2.0-3.0)	12/11/2013	12303-018	2.0-3.0	ND	181	D	ND	ND	181
	Y-50 (3.0-4.0)	1/27/2014	00716-002	3.0-4.0	ND	ND	ND	ND	ND	0
Y-53	T2-G10 (A)	9/7/1995	G-10	0-0.5'	ND	ND	ND	ND	NA	0
	T2-G10 (B)	9/7/1995	G-10	2-2.5'	ND	0.22	ND	0.033	NA	0.253
Z-42	Z-42 (0-1.0)	8/28/2012	08734-001	0.0-1.0	114	ND	ND	ND	ND	114
	Z-42 (1.0-2.0)	8/28/2012	08734-002	1.0-2.0	437	ND	ND	ND	ND	437
	Z-42 (2.0-3.0)	8/28/2012	08734-003	2.0-3.0	131	ND	ND	ND	ND	131
	Z-42 (3.0-4.0)	8/28/2012	08734-004	3.0-4.0	11.9	ND	ND	ND	ND	11.9
	Z-42 (4.0-5.0)	10/8/2012	10244-025	4.0-5.0	ND	0.044	ND	ND	ND	0.044
	Z-42 (5.0-6.0)	10/8/2012	10244-026	5.0-6.0	ND	0.232	ND	ND	ND	0.232
	Z-42 (6.0-7.0)	10/8/2012	10244-027	6.0-7.0	ND	ND	ND	ND	ND	0

TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
Z-43	Z-43 (0-1.0)	10/8/2012	10244-017	0.0-1.0	ND	198	ND	ND	ND	198
	Z-43 (1.0-2.0)	10/8/2012	10244-018	1.0-2.0	ND	2.76	ND	ND	ND	2.76
	Z-43 (2.0-3.0)	10/8/2012	10244-019	2.0-3.0	ND	1.28	ND	ND	ND	1.28
	Z-43 (3.0-4.0)	10/8/2012	10244-020	3.0-4.0	ND	0.193	ND	ND	ND	0.193
	Z-43 (4.0-5.0)	10/17/2013	10361-004	4.0-5.0	ND	0.482	ND	ND	ND	0.482
Z-43N(1)	Z-43N(1) (5.0-6.0)	10/17/2013	10361-002	5.0-6.0	ND	0.316	ND	ND	ND	0.316
Z-43N(2)	Z-43N(2) (5.0-6.0)	10/24/2013	10595-013	5.0-6.0	ND	ND	ND	ND	ND	0
Z-44	Z-44 (0-1.0)	10/8/2012	10244-013	0.0-1.0	ND	10.5	ND	ND	ND	10.5
	Z-44 (1.0-2.0)	10/8/2012	10244-014	1.0-2.0	ND	ND	ND	ND	ND	0
	Z-44 (2.0-3.0)	10/8/2012	10244-015	2.0-3.0	ND	ND	ND	ND	ND	0
	Z-44 (3.0-4.0)	10/8/2012	10244-016	3.0-4.0	ND	ND	ND	ND	ND	0
Z-45	Z-45 (0-1.0)	10/8/2012	10244-009	0.0-1.0	ND	3.7	ND	ND	ND	3.7
	Z-45 (1.0-2.0)	10/8/2012	10244-010	1.0-2.0	ND	ND	ND	ND	ND	0
	Z-45 (2.0-3.0)	10/8/2012	10244-011	2.0-3.0	ND	ND	ND	ND	ND	0
	Z-45 (3.0-4.0)	10/8/2012	10244-012	3.0-4.0	ND	ND	ND	ND	ND	0
Z-45R	Z-45R (0-1.0)	10/28/2013	10707-018	0.0-1.0	ND	4.92	ND	1.19	ND	6.11
	Z-45R (1.0-2.0)	10/28/2013	10707-019	1.0-2.0	ND	0.4	ND	ND	ND	0.4
Z-46	Z-46 (0-1.0)	9/24/2013	09406-005	0.0-1.0	ND	6.88	ND	ND	ND	6.88
	Z-46 (1.0-2.0)	9/24/2013	09406-006	1.0-2.0	ND	1.17	ND	ND	ND	1.17
	Z-46 (2.0-3.0)	10/29/2013	10748-010	2.0-3.0	2.81	ND	ND	ND	ND	2.81
	Z-46 (3.0-4.0)	10/29/2013	10748-011	3.0-4.0	ND	0.121	ND	ND	ND	0.121
Z-47	Z-47 (0-1.0)	10/24/2013	10595-009	0.0-1.0	ND	4.39	ND	ND	ND	4.39
	Z-47 (1.0-2.0)	10/24/2013	10595-010	1.0-2.0	ND	0.535	ND	ND	ND	0.535
	Z-47 (2.0-3.0)	10/29/2013	10748-012	2.0-3.0	ND	ND	ND	ND	ND	0
	Z-47 (3.0-4.0)	10/29/2013	10748-013	3.0-4.0	ND	ND	ND	ND	ND	0
Z-48	Z-48 (0-1.0)	10/24/2013	10595-007	0.0-1.0	ND	1.6	ND	ND	ND	1.6
	Z-48 (1.0-2.0)	10/24/2013	10595-008	1.0-2.0	ND	0.634	ND	ND	ND	0.634
	Z-48 (2.0-3.0)	10/31/2013	10867-008	2.0-3.0	ND	0.082	J ND	ND	ND	0.082
Z-49	Z-49 (0-1.0)	11/12/2013	11284-003	0.0-1.0	ND	13.1	ND	ND	ND	13.1
	Z-49 (1.0-2.0)	11/12/2013	11284-004	1.0-2.0	ND	0.538	ND	ND	ND	0.538
Z-50	Z-50 (0-1.0)	12/11/2013	12303-013	0.0-1.0	ND	2.11	ND	ND	ND	2.11
	Z-50 (1.0-2.0)	12/11/2013	12303-014	1.0-2.0	ND	0.172	ND	ND	ND	0.172
AA-41	AA-41 (0-1.0)	8/28/2012	08734-005	0.0-1.0	ND	27.4	ND	51.1	ND	78.5
	AA-41 (1.0-2.0)	8/28/2012	08734-006	1.0-2.0	ND	845	ND	ND	ND	845
	AA-41 (2.0-3.0)	8/28/2012	08734-007	2.0-3.0	ND	50.3	ND	ND	ND	50.3
	AA-41 (3.0-4.0)	8/28/2012	08734-008	3.0-4.0	ND	8.03	ND	ND	ND	8.03
	AA-41 (4.0-5.0)	10/8/2012	10244-021	4.0-5.0	ND	0.345	ND	ND	ND	0.345
	AA-41 (5.0-6.0)	10/8/2012	10244-022	5.0-6.0	ND	0.666	ND	0.442	ND	1.108
	AA-41 (6.0-7.0)	10/8/2012	10244-023	6.0-7.0	ND	ND	ND	ND	ND	0
AA-41S	AA-41S (5.0-6.0)	10/24/2013	10595-012	5.0-6.0	ND	1.22	ND	ND	ND	1.22
AA-42	AA-42 (0-1.0)	8/28/2012	08734-017	0.0-1.0	1540	ND	ND	ND	ND	1540
	AA-42 (1.0-2.0)	8/28/2012	08734-018	1.0-2.0	ND	123	ND	ND	ND	123
	AA-42 (2.0-3.0)	8/28/2012	08734-019	2.0-3.0	852	ND	ND	ND	ND	852
	AA-42 (3.0-4.0)	8/28/2012	08734-020	3.0-4.0	ND	5.2	ND	ND	ND	5.2
	AA-42 (4.0-5.0)	10/24/2013	10595-011	4.0-5.0	ND	ND	ND	ND	ND	0
AA-43	AA-43 (0-1.0)	10/8/2012	10244-001	0.0-1.0	ND	6.21	ND	ND	ND	6.21
	AA-43 (1.0-2.0)	10/8/2012	10244-002	1.0-2.0	ND	ND	ND	ND	ND	0
	AA-43 (2.0-3.0)	10/8/2012	10244-003	2.0-3.0	ND	0.572	ND	ND	ND	0.572
	AA-43 (3.0-4.0)	10/8/2012	10244-004	3.0-4.0	ND	ND	ND	ND	ND	0
AA-44	AA-44 (0-1.0)	10/8/2012	10244-005	0.0-1.0	ND	3.84	ND	ND	ND	3.84
	AA-44 (1.0-2.0)	10/8/2012	10244-006	1.0-2.0	ND	7.67	ND	ND	ND	7.67
	AA-44 (2.0-3.0)	10/8/2012	10244-007	2.0-3.0	ND	ND	ND	ND	ND	0
	AA-44 (3.0-4.0)	10/8/2012	10244-008	3.0-4.0	ND	ND	ND	ND	ND	0
AA-45	AA-45 (0-1.0)	10/28/2013	10707-016	0.0-1.0	ND	5.41	ND	ND	ND	5.41
	AA-45 (1.0-2.0)	10/28/2013	10707-017	1.0-2.0	ND	0.931	ND	ND	ND	0.931
	AA-45 (2.0-3.0)	11/11/2013	11243-011	2.0-3.0	ND	0.301	ND	ND	ND	0.301
AA-45N	AA-45N (0-1.0)	10/28/2013	10707-013	0.0-1.0	ND	40.4	ND	ND	ND	40.4
	AA-45N (1.0-2.0)	10/28/2013	10707-014	1.0-2.0	ND	ND	ND	ND	ND	0
	AA-45N (2.0-3.0)	10/28/2013	10707-015	2.0-3.0	ND	0.268	ND	ND	ND	0.268

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AA-46	AA-46 (0-1.0)	9/27/2013	09542-003	0.0-1.0	ND	5.42	5.03	ND	ND	10.45
	AA-46 (1.0-2.0)	9/27/2013	09542-004	1.0-2.0	ND	1.35	0.843	ND	ND	2.193
	AA-46 (2.0-3.0)	11/11/2013	11243-007	2.0-3.0	ND	ND	ND	ND	ND	0
	AA-46 (3.0-4.0)	11/11/2013	11243-008	3.0-4.0	ND	ND	ND	ND	ND	0
	T2-G7 (A)	9/6/1995	G-7	0-0.5'	ND	5.5	ND	0.47	NA	5.97
	T2-G7 (B)	9/6/1995	G-7	2-2.5'	ND	4.2	ND	0.19	NA	4.39
	T2-G7(N)	6/26/1996	G-7	4-4.5'	ND	ND	ND	ND	NA	0
AA-47	AA-47 (0-1.0)	10/25/2013	10679-008	0.0-1.0	ND	3.83	ND	ND	ND	3.83
	AA-47 (1.0-2.0)	10/25/2013	10679-009	1.0-2.0	ND	0.743	ND	ND	ND	0.743
	AA-47 (2.0-3.0)	10/25/2013	10679-010	2.0-3.0	ND	ND	ND	ND	ND	0
	AA-47 (3.0-4.0)	10/25/2013	10679-011	3.0-4.0	ND	ND	ND	ND	ND	0
AA-48	AA-48 (0-1.0)	10/28/2013	10707-007	0.0-1.0	ND	2.12	ND	ND	ND	2.12
	AA-48 (1.0-2.0)	10/28/2013	10707-008	1.0-2.0	ND	0.644	ND	ND	ND	0.644
AA-49	AA-49 (0-1.0)	11/25/2013	11775-008	0.0-1.0	ND	3.86	ND	ND	ND	3.86
	AA-49 (1.0-2.0)	11/25/2013	11775-007	1.0-2.0	ND	3.97	ND	ND	ND	3.97
AA-50	AA-50 (0-1.0)	12/12/2013	12326-001	0.0-1.0	ND	0.292	0.164	ND	ND	0.456
	AA-50 (1.0-2.0)	12/12/2013	12326-002	1.0-2.0	ND	0.321	0.296	ND	ND	0.617
BB-40	BB-40 (0-1.0)	8/28/2012	08734-009	0.0-1.0	1310	ND	ND	ND	ND	1310
	BB-40 (1.0-2.0)	8/28/2012	08734-010	1.0-2.0	2520	ND	ND	ND	ND	2520
	BB-40 (2.0-3.0)	8/28/2012	08734-011	2.0-3.0	222	ND	ND	ND	ND	222
	BB-40 (3.0-4.0)	8/28/2012	08734-012	3.0-4.0	860	ND	ND	ND	ND	860
	BB-40 (4.0-5.0)	10/9/2012	10285-005	4.0-5.0	ND	0.199	ND	ND	ND	0.199
	BB-40 (5.0-6.0)	10/9/2012	10285-006	5.0-6.0	ND	0.309	ND	ND	ND	0.309
	BB-40 (6.0-7.0)	10/9/2012	10285-007	6.0-7.0	ND	0.119	ND	ND	ND	0.119
	BB-40 (7.0-8.0)	10/9/2012	10285-008	7.0-8.0	ND	0.089	ND	ND	ND	0.089
BB-41	BB-41 (0-1.0)	8/28/2012	08734-013	0.0-1.0	1130	ND	ND	ND	ND	1130
	BB-41 (1.0-2.0)	8/28/2012	08734-014	1.0-2.0	2170	ND	ND	ND	ND	2170
	BB-41 (2.0-3.0)	8/28/2012	08734-015	2.0-3.0	134	ND	ND	ND	ND	134
	BB-41 (3.0-4.0)	8/28/2012	08734-016	3.0-4.0	ND	16.8	ND	ND	ND	16.8
	BB-41 (4.0-5.0)	10/9/2012	10285-001	4.0-5.0	ND	ND	ND	ND	ND	0
	BB-41 (5.0-6.0)	10/9/2012	10285-002	5.0-6.0	ND	0.616	ND	ND	ND	0.616
	BB-41 (6.0-7.0)	10/9/2012	10285-003	6.0-7.0	ND	ND	ND	ND	ND	0
	BB-41 (7.0-8.0)	10/9/2012	10285-004	7.0-8.0	ND	0.068	ND	ND	ND	0.068
BB-41S	BB-41S (5.0-6.0)	10/9/2013	10033-010	5.0-6.0	0.236	ND	ND	ND	ND	0.236
BB-42	BB-42 (0-1.0)	10/1/2012	09910-001	0.0-1.0	ND	73.5	ND	ND	ND	73.5
	BB-42 (1.0-2.0)	10/1/2012	09910-002	1.0-2.0	ND	13.6	ND	ND	ND	13.6
	BB-42 (2.0-3.0)	10/1/2012	09910-003	2.0-3.0	ND	1.37	ND	ND	ND	1.37
	BB-42 (3.0-4.0)	10/1/2012	09910-004	3.0-4.0	ND	ND	ND	ND	ND	0
BB-43	BB-43 (0-1.0)	10/2/2012	09988-005	0.0-1.0	ND	861	ND	ND	ND	861
	BB-43 (1.0-2.0)	10/2/2012	09988-006	1.0-2.0	ND	2880	ND	ND	ND	2880
	BB-43 (2.0-3.0)	10/2/2012	09988-007	2.0-3.0	ND	102	ND	ND	ND	102
	BB-43 (3.0-4.0)	10/2/2012	09988-008	3.0-4.0	ND	0.469	ND	ND	ND	0.469
	BB-43 (4.0-5.0)	10/17/2013	10361-009	4.0-5.0	1.08	ND	ND	ND	ND	1.08
BB-43R	BB-43R (3.0-4.0)	10/16/2013	10300-004	3.0-4.0	ND	0.246	ND	ND	ND	0.246
BB-44	BB-44 (0-1.0)	10/2/2012	09988-001	0.0-1.0	ND	6.1	ND	ND	ND	6.1
	BB-44 (1.0-2.0)	10/2/2012	09988-002	1.0-2.0	ND	2.12	ND	ND	ND	2.12
	BB-44 (2.0-3.0)	10/2/2012	09988-003	2.0-3.0	ND	0.38	ND	ND	ND	0.38
	BB-44 (3.0-4.0)	10/2/2012	09988-004	3.0-4.0	ND	ND	ND	ND	ND	0
BB-45	BB-45 (0-1.0)	2/19/2013	01458-001	0.0-1.0	ND	7.57	ND	ND	ND	7.57
	BB-45 (1.0-2.0)	2/19/2013	01458-002	1.0-2.0	6.24	ND	ND	ND	ND	6.24
	BB-45 (2.0-3.0)	2/19/2013	01458-003	2.0-3.0	ND	ND	ND	ND	ND	0
	BB-45 (3.0-4.0)	2/19/2013	01458-004	3.0-4.0	ND	ND	ND	ND	ND	0
BB-46	BB-46 (0-1.0)	9/27/2013	09542-001	0.0-1.0	ND	3.37	2.98	ND	ND	6.35
	BB-46 (1.0-2.0)	9/27/2013	09542-002	1.0-2.0	ND	1.05	ND	ND	ND	1.05
	BB-46 (2.0-3.0)	11/11/2013	11243-009	2.0-3.0	ND	0.905	ND	ND	ND	0.905
	BB-46 (3.0-4.0)	11/11/2013	11243-010	3.0-4.0	ND	0.083	ND	ND	ND	0.083
BB-47	BB-47 (0-1.0)	10/25/2013	10679-005	0.0-1.0	ND	5.66	ND	ND	ND	5.66
	BB-47 (1.0-2.0)	10/25/2013	10679-006	1.0-2.0	ND	1	ND	ND	ND	1
	BB-47 (2.0-3.0)	10/25/2013	10679-007	2.0-3.0	ND	ND	ND	ND	ND	0
BB-48	BB-48 (0-1.0)	10/28/2013	10707-009	0.0-1.0	ND	21	D	ND	ND	21
	BB-48 (1.0-2.0)	10/28/2013	10707-010	1.0-2.0	ND	21.3	D	ND	ND	21.3
	BB-48 (2.0-3.0)	11/25/2013	11775-005	2.0-3.0	ND	ND	ND	ND	ND	0

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BB-49	BB-49 (0-1.0)	12/3/2013	11967-001	0.0-1.0	ND	ND	ND	ND	ND	0
	BB-49 (1.0-2.0)	12/3/2013	11967-002	1.0-2.0	ND	ND	ND	ND	ND	0
CC-39	CC-39 (0-1.0)	8/28/2012	08734-021	0.0-1.0	ND	35.8	ND	13.1	ND	48.9
	CC-39 (1.0-2.0)	8/28/2012	08734-022	1.0-2.0	ND	70.6	ND	ND	ND	70.6
	CC-39 (2.0-3.0)	8/28/2012	08734-023	2.0-3.0	ND	117	ND	ND	ND	117
	CC-39 (3.0-4.0)	8/28/2012	08734-024	3.0-4.0	ND	51.8	ND	ND	ND	51.8
	CC-39 (4.0-5.0)	10/9/2012	10285-013	4.0-5.0	ND	0.062	ND	ND	ND	0.062
	CC-39 (5.0-6.0)	10/9/2012	10285-014	5.0-6.0	ND	ND	ND	ND	ND	0
	CC-39 (6.0-7.0)	10/9/2012	10285-015	6.0-7.0	ND	ND	ND	ND	ND	0
CC-39N	CC-39N (5.0-6.0)	10/9/2013	10033-011	5.0-6.0	ND	0.184	ND	ND	ND	0.184
CC-39S	CC-39S (5.0-6.0)	10/16/2013	10300-001	5.0-6.0	ND	0.601	ND	ND	ND	0.601
CC-40	CC-40 (0-1.0)	8/28/2012	08734-025	0.0-1.0	ND	537	ND	ND	ND	537
	CC-40 (1.0-2.0)	8/28/2012	08734-026	1.0-2.0	ND	444	ND	ND	ND	444
	CC-40 (2.0-3.0)	8/28/2012	08734-027	2.0-3.0	ND	64.1	ND	ND	ND	64.1
	CC-40 (3.0-4.0)	8/28/2012	08734-028	3.0-4.0	ND	22.8	ND	ND	ND	22.8
	CC-40 (4.0-5.0)	10/9/2012	10285-009	4.0-5.0	ND	0.042	J	ND	ND	0.042
	CC-40 (5.0-6.0)	10/9/2012	10285-010	5.0-6.0	ND	0.179	ND	ND	ND	0.179
	CC-40 (6.0-7.0)	10/9/2012	10285-011	6.0-7.0	ND	ND	ND	ND	ND	0
	CC-40 (7.0-8.0)	10/9/2012	10285-012	7.0-8.0	ND	ND	ND	ND	ND	0
CC-40R	CC-40(R) (0-1.0)	2/19/2013	01458-021	0.0-1.0	3140	ND	ND	ND	ND	3140
	CC-40(R) (1.0-2.0)	2/19/2013	01458-022	1.0-2.0	1.66	ND	ND	ND	ND	1.66
	CC-40(R) (2.0-3.0)	2/19/2013	01458-023	2.0-3.0	2.67	ND	ND	ND	ND	2.67
	CC-40(R) (3.0-4.0)	2/19/2013	01458-024	3.0-4.0	0.083	ND	ND	ND	ND	0.083
CC-40S	CC-40S (5.0-6.0)	10/16/2013	10300-003	5.0-6.0	ND	0.082	ND	ND	ND	0.082
CC-41	CC-41 (0-1.0)	10/1/2012	09910-005	0.0-1.0	ND	35.5	ND	ND	ND	35.5
	CC-41 (1.0-2.0)	10/1/2012	09910-006	1.0-2.0	ND	6.99	ND	ND	ND	6.99
	CC-41 (2.0-3.0)	10/1/2012	09910-007	2.0-3.0	ND	2.3	ND	ND	ND	2.3
	CC-41 (3.0-4.0)	10/1/2012	09910-008	3.0-4.0	ND	ND	ND	ND	ND	0
CC-41R	CC-41R (0-1.0)	1/22/2013	00646-021	0.0-1.0	ND	45.7	ND	11.8	ND	57.5
	CC-41R (1.0-2.0)	1/22/2013	00646-022	1.0-2.0	ND	22.6	ND	ND	ND	22.6
	CC-41R (2.0-3.0)	1/22/2013	00646-023	2.0-3.0	0.874	ND	ND	ND	ND	0.874
	CC-41R (3.0-4.0)	1/22/2013	00646-024	3.0-4.0	0.09	ND	ND	ND	ND	0.09
CC-42	CC-42 (0-1.0)	10/1/2012	09910-009	0.0-1.0	ND	5.8	ND	ND	ND	5.8
	CC-42 (1.0-2.0)	10/1/2012	09910-010	1.0-2.0	ND	191	ND	ND	ND	191
	CC-42 (2.0-3.0)	10/1/2012	09910-011	2.0-3.0	ND	1.67	ND	ND	ND	1.67
	CC-42 (3.0-4.0)	10/1/2012	09910-012	3.0-4.0	ND	ND	ND	ND	ND	0
CC-42R	CC-42R (0-1.0)	1/22/2013	00646-017	0.0-1.0	ND	59.7	ND	ND	ND	59.7
	CC-42R (1.0-2.0)	1/22/2013	00646-018	1.0-2.0	8.51	ND	ND	ND	ND	8.51
	CC-42R (2.0-3.0)	1/22/2013	00646-019	2.0-3.0	ND	ND	ND	ND	ND	0
	CC-42R (3.0-4.0)	1/22/2013	00646-020	3.0-4.0	ND	ND	ND	ND	ND	0
CC-43	CC-43 (0-1.0)	10/2/2012	09988-009	0.0-1.0	ND	11.5	ND	ND	ND	11.5
	CC-43 (1.0-2.0)	10/2/2012	09988-010	1.0-2.0	ND	5.4	ND	ND	ND	5.4
	CC-43 (2.0-3.0)	10/2/2012	09988-011	2.0-3.0	ND	ND	ND	ND	ND	0
	CC-43 (3.0-4.0)	10/2/2012	09988-012	3.0-4.0	ND	0.094	ND	ND	ND	0.094
CC-43R	CC-43R (0-1.0)	1/21/2013	00627-005	0.0-1.0	ND	9.77	ND	1.63	ND	11.4
	CC-43R (1.0-2.0)	1/21/2013	00627-006	1.0-2.0	ND	12	ND	1.5	ND	13.5
	CC-43R (2.0-3.0)	1/21/2013	00627-007	2.0-3.0	ND	ND	ND	ND	ND	0
	CC-43R (3.0-4.0)	1/21/2013	00627-008	3.0-4.0	ND	ND	ND	ND	ND	0
CC-44	CC-44 (0-1.0)	1/18/2013	00569-001	0.0-1.0	ND	293	ND	ND	ND	293
	CC-44 (1.0-2.0)	1/18/2013	00569-002	1.0-2.0	ND	114	ND	ND	ND	114
	CC-44 (2.0-3.0)	1/18/2013	00569-003	2.0-3.0	ND	3.76	ND	ND	ND	3.76
	CC-44 (3.0-4.0)	1/18/2013	00569-004	3.0-4.0	ND	ND	ND	ND	ND	0
CC-44N	CC-44N (2.0-3.0)	10/16/2013	10300-006	2.0-3.0	ND	855	D	ND	ND	855
	CC-44N (3.0-4.0)	10/16/2013	10300-007	3.0-4.0	5.73	ND	ND	ND	ND	5.73
	CC-44N (4.0-5.0)	11/11/2013	11243-012	4.0-5.0	ND	ND	ND	ND	ND	0
CC-45	CC-45 (0-1.0)	2/18/2013	01457-017	0.0-1.0	337	ND	ND	ND	ND	337
	CC-45 (1.0-2.0)	2/18/2013	01457-018	1.0-2.0	0.309	ND	ND	ND	ND	0.309
	CC-45 (2.0-3.0)	2/18/2013	01457-019	2.0-3.0	ND	ND	ND	ND	ND	0
	CC-45 (3.0-4.0)	2/18/2013	01457-020	3.0-4.0	0.084	ND	ND	ND	ND	0.084
CC-46	CC-46 (0-1.0)	2/18/2013	01457-013	0.0-1.0	7.02	ND	ND	ND	ND	7.02
	CC-46 (1.0-2.0)	11/25/2013	11775-009	1.0-2.0	ND	ND	ND	ND	ND	0
	CC-46 (2.0-3.0)	11/25/2013	11775-010	2.0-3.0	ND	ND	ND	ND	ND	0

TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
CC-46S	CC-46S (0-1.0)	10/28/2013	10707-011	0.0-1.0	ND	8.62	ND	ND	ND	8.62
	CC-46S (1.0-2.0)	10/28/2013	10707-012	1.0-2.0	ND	ND	ND	ND	ND	0
CC-47	CC-47 (0-1.0)	10/25/2013	10679-001	0.0-1.0	ND	11.2	ND	ND	ND	11.2
	CC-47 (1.0-2.0)	10/25/2013	10679-002	1.0-2.0	ND	57.5	D	ND	ND	57.5
	CC-47 (2.0-3.0)	11/15/2013	11458-009	2.0-3.0	ND	386	D	ND	ND	386
	CC-47 (3.0-4.0)	11/15/2013	11458-010	3.0-4.0	ND	0.055	ND	ND	ND	0.055
CC-48	CC-48 (0-1.0)	11/18/2013	11510-001	0.0-1.0	ND	ND	ND	ND	ND	0
	CC-48 (1.0-2.0)	11/18/2013	11510-002	1.0-2.0	ND	ND	ND	ND	ND	0
	CC-48 (2.0-3.0)	11/18/2013	11510-003	2.0-3.0	ND	0.337	ND	ND	ND	0.337
CC-49	CC-49 (0-1.0)	12/3/2013	11967-003	0.0-1.0	ND	ND	ND	ND	ND	0
	CC-49 (1.0-2.0)	12/3/2013	11967-004	1.0-2.0	ND	ND	ND	ND	ND	0
CC-50	T2-G8 (A)	9/7/1995	G-8	0-0.5'	ND	ND	ND	ND	NA	0
	T2-G8 (B)	9/7/1995	G-8	2-2.5'	ND	ND	ND	ND	NA	0
DD-38E	DD-38E (4.0-5.0)	10/9/2013	10033-012	4.0-5.0	ND	0.21	ND	ND	ND	0.21
	DD-38E (5.0-6.0)	10/9/2013	10033-013	5.0-6.0	ND	ND	ND	ND	ND	0
DD-39	DD-39 (0-1.0)	8/28/2012	08734-029	0.0-1.0	ND	301	ND	ND	ND	301
	DD-39 (1.0-2.0)	8/28/2012	08734-030	1.0-2.0	ND	262	ND	ND	ND	262
	DD-39 (2.0-3.0)	8/28/2012	08734-031	2.0-3.0	ND	56.5	ND	ND	ND	56.5
	DD-39 (3.0-4.0)	8/28/2012	08734-032	3.0-4.0	ND	12.8	ND	ND	ND	12.8
	DD-39 (4.0-5.0)	10/9/2012	10285-017	4.0-5.0	ND	ND	ND	ND	ND	0
	DD-39 (5.0-6.0)	10/9/2012	10285-018	5.0-6.0	ND	ND	ND	ND	ND	0
	DD-39 (6.0-7.0)	10/9/2012	10285-019	6.0-7.0	ND	ND	ND	ND	ND	0
DD-40	DD-40 (0-1.0)	10/2/2012	09988-017	0.0-1.0	ND	19.4	ND	ND	ND	19.4
	DD-40 (1.0-2.0)	10/2/2012	09988-018	1.0-2.0	ND	137	ND	ND	ND	137
	DD-40 (2.0-3.0)	10/2/2012	09988-019	2.0-3.0	ND	2.33	ND	ND	ND	2.33
	DD-40 (3.0-4.0)	10/2/2012	09988-020	3.0-4.0	ND	ND	ND	ND	ND	0
DD-40R	DD-40R (0-1.0)	2/19/2013	01458-025	0.0-1.0	351	262	ND	ND	ND	613
	DD-40R (1.0-2.0)	2/19/2013	01458-026	1.0-2.0	4.51	ND	ND	ND	ND	4.51
	DD-40R (2.0-3.0)	2/19/2013	01458-027	2.0-3.0	ND	ND	ND	ND	ND	0
	DD-40R (3.0-4.0)	2/19/2013	01458-028	3.0-4.0	ND	ND	ND	ND	ND	0
DD-41	DD-41 (0-1.0)	10/2/2012	09988-013	0.0-1.0	ND	12.6	ND	ND	ND	12.6
	DD-41 (1.0-2.0)	10/2/2012	09988-014	1.0-2.0	ND	497	ND	ND	ND	497
	DD-41 (2.0-3.0)	10/2/2012	09988-015	2.0-3.0	ND	30.7	ND	ND	ND	30.7
	DD-41 (3.0-4.0)	10/2/2012	09988-016	3.0-4.0	ND	ND	ND	ND	ND	0
DD-41R	DD-41R (0-1.0)	1/22/2013	00646-005	0.0-1.0	198	ND	ND	ND	ND	198
	DD-41R (1.0-2.0)	1/22/2013	00646-006	1.0-2.0	ND	ND	ND	ND	ND	0
	DD-41R (2.0-3.0)	1/22/2013	00646-007	2.0-3.0	ND	ND	ND	ND	ND	0
	DD-41R (3.0-4.0)	1/22/2013	00646-008	3.0-4.0	ND	ND	ND	ND	ND	0
DD-42	DD-42 (0-1.0)	10/2/2012	09988-021	0.0-1.0	ND	10.2	ND	2.34	ND	12.54
	DD-42 (1.0-2.0)	10/2/2012	09988-022	1.0-2.0	ND	100	ND	ND	ND	100
	DD-42 (2.0-3.0)	10/2/2012	09988-023	2.0-3.0	ND	1.36	ND	ND	ND	1.36
	DD-42 (3.0-4.0)	10/2/2012	09988-024	3.0-4.0	ND	ND	ND	ND	ND	0
DD-42R	DD-42R (0-1.0)	1/18/2013	00569-013	0.0-1.0	ND	ND	ND	ND	ND	0
	DD-42R (1.0-2.0)	1/18/2013	00569-014	1.0-2.0	ND	8.35	ND	ND	1.03	9.38
	DD-42R (2.0-3.0)	1/18/2013	00569-015	2.0-3.0	ND	17.9	ND	3.89	ND	21.79
	DD-42R (3.0-4.0)	1/18/2013	00569-016	3.0-4.0	ND	ND	ND	ND	ND	0
DD-43/EE-44	DD-43/EE-44 (0-1.0)	1/21/2013	00627-009	0.0-1.0	159	ND	ND	ND	ND	159
	DD-43/EE-44 (1.0-2.0)	1/21/2013	00627-010	1.0-2.0	1.87	ND	ND	ND	ND	1.87
	DD-43/EE-44 (2.0-3.0)	1/21/2013	00627-011	2.0-3.0	0.177	ND	ND	ND	ND	0.177
	DD-43/EE-44 (3.0-4.0)	1/21/2013	00627-012	3.0-4.0	1.59	ND	ND	ND	ND	1.59
	DD-43/EE-44 (4.0-5.0)	10/16/2013	10300-005	4.0-5.0	ND	0.443	ND	ND	ND	0.443
	DD-43/EE-44 (5.0-6.0)	10/29/2013	10748-009	5.0-6.0	ND	0.103	ND	ND	ND	0.103
DD-44	DD-44 (0-1.0)	1/21/2013	00627-001	0.0-1.0	ND	4.28	ND	ND	ND	4.28
	DD-44 (1.0-2.0)	1/21/2013	00627-002	1.0-2.0	50.9	ND	ND	ND	ND	50.9
	DD-44 (2.0-3.0)	1/21/2013	00627-003	2.0-3.0	0.109	ND	ND	ND	ND	0.109
	DD-44 (3.0-4.0)	1/21/2013	00627-004	3.0-4.0	0.038	J	ND	ND	ND	0.038
DD-45	DD-45 (0-1.0)	2/19/2013	01458-009	0.0-1.0	ND	12.8	13.1	ND	ND	25.9
	DD-45 (1.0-2.0)	2/19/2013	01458-010	1.0-2.0	ND	0.839	ND	ND	ND	0.839
	DD-45 (2.0-3.0)	2/19/2013	01458-011	2.0-3.0	ND	ND	ND	ND	ND	0
	DD-45 (3.0-4.0)	2/19/2013	01458-012	3.0-4.0	ND	ND	ND	ND	ND	0
DD-46	DD-46 (0-1.0)	2/19/2013	01458-005	0.0-1.0	ND	5.98	ND	ND	ND	5.98
	DD-46 (1.0-2.0)	11/25/2013	11775-011	1.0-2.0	ND	1.04	ND	ND	ND	1.04
	DD-46 (2.0-3.0)	11/25/2013	11775-012	2.0-3.0	ND	ND	ND	ND	ND	0

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DD-47	DD-47 (0-1.0)	10/25/2013	10679-003	0.0-1.0	ND	2.48	3.31	ND	ND	5.79
	DD-47 (1.0-2.0)	10/25/2013	10679-004	1.0-2.0	ND	46.3	ND	ND	ND	46.3
	DD-47 (2.0-3.0)	11/19/2013	11556-011	2.0-3.0	ND	ND	0.639	ND	ND	0.639
DD-48	DD-48 (0-1.0)	11/19/2013	11556-008	0.0-1.0	ND	ND	0.286	ND	ND	0.286
	DD-48 (1.0-2.0)	11/19/2013	11556-009	1.0-2.0	ND	ND	0.281	ND	ND	0.281
	DD-48 (2.0-3.0)	11/19/2013	11556-010	2.0-3.0	ND	ND	0.177	ND	ND	0.177
EE-38	EE-38 (0-1.0)	10/3/2012	10047-013	0.0-1.0	ND	12.5	ND	ND	ND	12.5
	EE-38 (1.0-2.0)	10/3/2012	10047-014	1.0-2.0	ND	243	ND	ND	ND	243
	EE-38 (2.0-3.0)	10/3/2012	10047-015	2.0-3.0	ND	28.6	ND	ND	ND	28.6
	EE-38 (3.0-4.0)	10/3/2012	10047-016	3.0-4.0	ND	0.178	ND	ND	ND	0.178
EE-39	EE-39 (0-1.0)	10/3/2012	10047-009	0.0-1.0	ND	50.2	ND	ND	ND	50.2
	EE-39 (1.0-2.0)	10/3/2012	10047-010	1.0-2.0	ND	206	ND	ND	ND	206
	EE-39 (2.0-3.0)	10/3/2012	10047-011	2.0-3.0	ND	5.99	ND	ND	ND	5.99
	EE-39 (3.0-4.0)	10/3/2012	10047-012	3.0-4.0	ND	ND	ND	ND	ND	0
EE-40	EE-40 (0-1.0)	10/3/2012	10047-005	0.0-1.0	ND	52.1	ND	ND	ND	52.1
	EE-40 (1.0-2.0)	10/3/2012	10047-006	1.0-2.0	ND	184	ND	ND	ND	184
	EE-40 (2.0-3.0)	10/3/2012	10047-007	2.0-3.0	ND	68.1	ND	ND	ND	68.1
	EE-40 (3.0-4.0)	10/3/2012	10047-008	3.0-4.0	ND	ND	ND	ND	ND	0
EE-41	EE-41 (0-1.0)	10/3/2012	10047-001	0.0-1.0	ND	4.19	ND	ND	ND	4.19
	EE-41 (1.0-2.0)	10/3/2012	10047-002	1.0-2.0	ND	61.8	ND	ND	ND	61.8
	EE-41 (2.0-3.0)	10/3/2012	10047-003	2.0-3.0	ND	4.3	ND	ND	ND	4.3
	EE-41 (3.0-4.0)	10/3/2012	10047-004	3.0-4.0	ND	ND	ND	ND	ND	0
EE-42	EE-42 (0-1.0)	1/22/2013	00646-001	0.0-1.0	0.996	ND	ND	ND	ND	0.996
	EE-42 (1.0-2.0)	1/22/2013	00646-002	1.0-2.0	6.57	ND	ND	ND	ND	6.57
	EE-42 (2.0-3.0)	1/22/2013	00646-003	2.0-3.0	ND	20.5	ND	4.13	ND	24.63
	EE-42 (3.0-4.0)	1/22/2013	00646-004	3.0-4.0	ND	ND	ND	ND	ND	0
EE-43	EE-43 (0-1.0)	1/18/2013	00569-009	0.0-1.0	ND	15.4	ND	3.35	ND	18.75
	EE-43 (1.0-2.0)	1/18/2013	00569-010	1.0-2.0	ND	ND	ND	ND	ND	0
	EE-43 (2.0-3.0)	1/18/2013	00569-011	2.0-3.0	ND	ND	ND	ND	ND	0
	EE-43 (3.0-4.0)	1/18/2013	00569-012	3.0-4.0	ND	ND	ND	ND	ND	0
FF-36	FF-36 (0-2.0)	10/17/2012	10545-049	0.0-2.0	ND	89.9	ND	ND	ND	89.9
	FF-36 (2.0-3.0)	10/17/2012	10545-050	2.0-3.0	ND	97.9	ND	ND	ND	97.9
	FF-36 (3.0-4.0)	10/17/2012	10545-051	3.0-4.0	ND	0.928	ND	ND	ND	0.928
	FF-36 (4.0-5.0)	10/17/2012	10545-052	4.0-5.0	ND	0.669	ND	ND	ND	0.669
	FF-36 (5.0-6.0)	10/17/2012	10545-053	5.0-6.0	ND	0.083	ND	ND	ND	0.083
	FF-36N (5.0-6.0)	10/9/2013	10033-014	5.0-6.0	ND	0.048	ND	ND	ND	0.048
FF-37	FF-37 (0-1.0)	10/4/2012	10140-001	0.0-1.0	ND	17.3	ND	ND	ND	17.3
	FF-37 (1.0-2.0)	10/4/2012	10140-002	1.0-2.0	ND	128	ND	ND	ND	128
	FF-37 (2.0-3.0)	10/4/2012	10140-003	2.0-3.0	ND	20.7	ND	ND	ND	20.7
	FF-37 (3.0-4.0)	10/4/2012	10140-004	3.0-4.0	ND	0.143	ND	ND	ND	0.143
FF-38	FF-38 (0-1.0)	1/22/2013	00646-013	0.0-1.0	ND	1.21	ND	ND	ND	1.21
	FF-38 (1.0-2.0)	1/22/2013	00646-014	1.0-2.0	ND	6.88	ND	ND	ND	6.88
	FF-38 (2.0-3.0)	1/22/2013	00646-015	2.0-3.0	ND	2.88	ND	ND	ND	2.88
	FF-38 (3.0-4.0)	1/22/2013	00646-016	3.0-4.0	ND	ND	ND	ND	ND	0
FF-39	FF-39 (0-1.0)	1/22/2013	00646-009	0.0-1.0	ND	10.7	ND	2.08	ND	12.78
	FF-39 (1.0-2.0)	1/22/2013	00646-010	1.0-2.0	ND	ND	ND	ND	ND	0
	FF-39 (2.0-3.0)	1/22/2013	00646-011	2.0-3.0	ND	ND	ND	ND	ND	0
	FF-39 (3.0-4.0)	1/22/2013	00646-012	3.0-4.0	ND	ND	ND	ND	ND	0
FF-40	FF-40 (0-1.0)	1/21/2013	00627-021	0.0-1.0	ND	145	ND	ND	ND	145
	FF-40 (1.0-2.0)	1/21/2013	00627-022	1.0-2.0	ND	1.28	ND	ND	ND	1.28
	FF-40 (2.0-3.0)	1/21/2013	00627-023	2.0-3.0	ND	ND	ND	ND	ND	0
	FF-40 (3.0-4.0)	1/21/2013	00627-024	3.0-4.0	ND	ND	ND	ND	ND	0
FF-41	FF-41 (0-1.0)	1/21/2013	00627-017	0.0-1.0	ND	2	ND	ND	ND	2
	FF-41 (1.0-2.0)	1/21/2013	00627-018	1.0-2.0	ND	ND	ND	ND	ND	0
	FF-41 (2.0-3.0)	1/21/2013	00627-019	2.0-3.0	ND	ND	ND	ND	ND	0
	FF-41 (3.0-4.0)	1/21/2013	00627-020	3.0-4.0	ND	ND	ND	ND	ND	0
FF-42	FF-42 (0-1.0)	1/21/2013	00627-013	0.0-1.0	10.1	ND	ND	ND	ND	10.1
	FF-42 (1.0-2.0)	1/21/2013	00627-014	1.0-2.0	2.74	ND	ND	ND	ND	2.74
	FF-42 (2.0-3.0)	1/21/2013	00627-015	2.0-3.0	2.33	ND	ND	ND	ND	2.33
	FF-42 (3.0-4.0)	1/21/2013	00627-016	3.0-4.0	0.083	ND	ND	ND	ND	0.083

TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
FF-43	FF-43 (0-1.0)	2/18/2013	01457-001	0.0-1.0	168	ND	ND	ND	ND	168
	FF-43 (1.0-2.0)	2/18/2013	01457-002	1.0-2.0	ND	ND	ND	ND	ND	0
	FF-43 (2.0-3.0)	2/18/2013	01457-003	2.0-3.0	ND	ND	ND	ND	ND	0
	FF-43 (3.0-4.0)	2/18/2013	01457-004	3.0-4.0	ND	ND	ND	ND	ND	0
	T2-G5 (A)	9/7/1995	G-5	0-0.5'	ND	4.2	ND	0.57	NA	4.77
	T2-G5 (B)	9/7/1995	G-5	2-2.5'	ND	12	ND	0.45	NA	12.45
FF-43N	FF-43N (3.0-4.0)	10/16/2013	10300-008	3.0-4.0	ND	7.96	D	ND	ND	7.96
	FF-43N (4.0-5.0)	11/11/2013	11243-013	4.0-5.0	ND	0.301	ND	ND	ND	0.301
FF-44	FF-44 (0-1.0)	1/18/2013	00569-005	0.0-1.0	ND	2.78	ND	0.887	ND	3.667
	FF-44 (1.0-2.0)	1/18/2013	00569-006	1.0-2.0	ND	ND	ND	ND	ND	0
	FF-44 (2.0-3.0)	1/18/2013	00569-007	2.0-3.0	ND	ND	ND	ND	ND	0
	FF-44 (3.0-4.0)	1/18/2013	00569-008	3.0-4.0	ND	ND	ND	ND	ND	0
FF-45	FF-45 (0-1.0)	2/19/2013	01458-013	0.0-1.0	ND	7.66	ND	2.6	ND	10.26
	FF-45 (1.0-2.0)	2/19/2013	01458-014	1.0-2.0	ND	2.19	ND	ND	ND	2.19
	FF-45 (2.0-3.0)	2/19/2013	01458-015	2.0-3.0	ND	ND	ND	ND	ND	0
	FF-45 (3.0-4.0)	2/19/2013	01458-016	3.0-4.0	ND	ND	ND	ND	ND	0
FF-45E	FF-45E (0-1.0)	10/29/2013	10748-001	0.0-1.0	ND	33.2	D	ND	ND	33.2
	FF-45E (1.0-2.0)	10/29/2013	10748-002	1.0-2.0	ND	20.8	D	ND	ND	20.8
	FF-45E (2.0-3.0)	11/25/2013	11775-013	2.0-3.0	ND	ND	ND	ND	ND	0
FF-45S	FF-45S (0-1.0)	10/29/2013	10748-003	0.0-1.0	ND	13.4	D	ND	ND	13.4
	FF-45S (1.0-2.0)	10/29/2013	10748-004	1.0-2.0	ND	14.6	D	ND	ND	14.6
	FF-45S (2.0-3.0)	11/25/2013	11775-015	2.0-3.0	ND	198	D	ND	ND	198
	FF-45S (3.0-4.0)	11/25/2013	11775-016	3.0-4.0	ND	0.244	ND	ND	ND	0.244
FF-46	FF-46 (0-1.0)	10/29/2013	10748-005	0.0-1.0	ND	9.38	D	ND	ND	9.38
	FF-46 (1.0-2.0)	10/29/2013	10748-006	1.0-2.0	ND	ND	ND	ND	ND	0
	FF-46 (2.0-3.0)	11/25/2013	11775-017	2.0-3.0	ND	ND	ND	ND	ND	0
FF-47	FF-47 (0-1.0)	11/19/2013	11556-002	0.0-1.0	ND	ND	0.314	ND	ND	0.314
	FF-47 (1.0-2.0)	11/19/2013	11556-003	1.0-2.0	ND	ND	0.35	ND	ND	0.35
FF-48	FF-48 (0-1.0)	11/19/2013	11556-005	0.0-1.0	ND	ND	0.176	ND	ND	0.176
	FF-48 (1.0-2.0)	11/19/2013	11556-006	1.0-2.0	ND	ND	0.162	ND	ND	0.162
GG-36	GG-36 (0-1.0)	8/29/2012	08776-029	0.0-1.0	ND	302	ND	ND	ND	302
	GG-36 (1.0-2.0)	8/29/2012	08776-030	1.0-2.0	ND	217	ND	ND	ND	217
	GG-36 (2.0-3.0)	8/29/2012	08776-031	2.0-3.0	ND	36	ND	ND	ND	36
	GG-36 (3.0-4.0)	8/29/2012	08776-032	3.0-4.0	ND	ND	ND	ND	ND	0
GG-36N	GG-36N (5.0-6.0)	9/30/2013	09604-007	5.0-6.0	ND	ND	ND	ND	ND	0
GG-37	GG-37 (0-1.0)	10/5/2012	10211-013	0.0-1.0	ND	8.98	ND	ND	ND	8.98
	GG-37 (1.0-2.0)	10/5/2012	10211-014	1.0-2.0	ND	8.63	ND	ND	ND	8.63
	GG-37 (2.0-3.0)	10/5/2012	10211-015	2.0-3.0	ND	4.73	ND	ND	ND	4.73
	GG-37 (3.0-4.0)	10/5/2012	10211-016	3.0-4.0	ND	0.305	ND	ND	ND	0.305
	GG-37 (4.0-5.0)	9/30/2013	09604-005	4.0-5.0	ND	0.368	ND	ND	ND	0.368
GG-38	GG-38 (0-1.0)	10/9/2013	10033-006	0.0-1.0	ND	5.01	6.33	ND	ND	11.34
	GG-38 (1.0-2.0)	10/9/2013	10033-007	1.0-2.0	ND	ND	ND	ND	ND	0
	GG-38 (2.0-3.0)	10/9/2013	10033-008	2.0-3.0	ND	ND	ND	ND	ND	0
	GG-38 (3.0-4.0)	10/9/2013	10033-009	3.0-4.0	ND	ND	ND	ND	ND	0
GG-39	GG-39 (0-1.0)	2/19/2013	01458-017	0.0-1.0	ND	10.8	7.23	ND	ND	18.03
	GG-39 (1.0-2.0)	2/19/2013	01458-018	1.0-2.0	ND	6.66	3.82	ND	ND	10.48
	GG-39 (2.0-3.0)	2/19/2013	01458-019	2.0-3.0	ND	ND	ND	ND	ND	0
	GG-39 (3.0-4.0)	2/19/2013	01458-020	3.0-4.0	ND	ND	ND	ND	ND	0
GG-40	GG-40 (0-1.0)	2/18/2013	01457-009	0.0-1.0	1.17	ND	ND	ND	ND	1.17
	GG-40 (1.0-2.0)	2/18/2013	01457-010	1.0-2.0	ND	ND	ND	ND	ND	0
	GG-40 (2.0-3.0)	2/18/2013	01457-011	2.0-3.0	ND	ND	ND	ND	ND	0
	GG-40 (3.0-4.0)	2/18/2013	01457-012	3.0-4.0	ND	ND	ND	ND	ND	0
GG-41	GG-41 (0-1.0)	2/18/2013	01457-005	0.0-1.0	3.85	ND	ND	ND	ND	3.85
	GG-41 (1.0-2.0)	2/18/2013	01457-006	1.0-2.0	1.12	ND	ND	ND	ND	1.12
	GG-41 (2.0-3.0)	2/18/2013	01457-007	2.0-3.0	0.09	ND	ND	ND	ND	0.09
	GG-41 (3.0-4.0)	2/18/2013	01457-008	3.0-4.0	0.031	J	ND	ND	ND	0.031
GG-42	GG-42 (0-1.0)	10/14/2013	10192-001	0.0-1.0	ND	6.99	ND	ND	ND	6.99
	GG-42 (1.0-2.0)	10/14/2013	10192-002	1.0-2.0	ND	3.3	ND	ND	ND	3.3
	GG-42 (2.0-3.0)	10/14/2013	10192-003	2.0-3.0	ND	0.216	ND	ND	ND	0.216
GG-43	GG-43 (0-1.0)	10/14/2013	10192-006	0.0-1.0	ND	1.42	ND	ND	ND	1.42
	GG-43 (1.0-2.0)	10/14/2013	10192-007	1.0-2.0	ND	ND	ND	ND	ND	0
	GG-43 (2.0-3.0)	10/14/2013	10192-008	2.0-3.0	ND	ND	ND	ND	ND	0

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ARSYNCO, INC
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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
GG-44	GG-44 (0-1.0)	10/14/2013	10192-009	0.0-1.0	ND	5.51	ND	ND	ND	5.51
	GG-44 (1.0-2.0)	10/14/2013	10192-010	1.0-2.0	ND	ND	ND	ND	ND	0
GG-45	GG-45 (0-1.0)	10/15/2013	10227-008	0.0-1.0	ND	6.34	ND	ND	ND	6.34
	GG-45 (1.0-2.0)	10/15/2013	10227-009	1.0-2.0	ND	ND	ND	ND	ND	0
	GG-45 (2.0-3.0)	1/8/2014	00190-001	2.0-3.0	ND	ND	ND	ND	ND	0
GG-46	GG-46 (0-1.0)	10/29/2013	10748-007	0.0-1.0	ND	0.083	0.201	ND	ND	0.284
	GG-46 (1.0-2.0)	10/29/2013	10748-008	1.0-2.0	ND	ND	0.146	ND	ND	0.146
GG-47	GG-47 (0-1.0)	11/25/2013	11775-018	0.0-1.0	ND	ND	ND	ND	ND	0
	GG-47 (1.0-2.0)	11/18/2013	11510-007	1.0-2.0	ND	ND	0.227	ND	ND	0.227
HH-35	HH-35 (0-1.0)	8/29/2012	08776-013	0.0-1.0	ND	369	ND	ND	ND	369
	HH-35 (1.0-2.0)	8/29/2012	08776-014	1.0-2.0	ND	281	ND	ND	ND	281
	HH-35 (2.0-3.0)	8/29/2012	08776-015	2.0-3.0	ND	26.8	ND	ND	ND	26.8
	HH-35 (3.0-4.0)	8/29/2012	08776-016	3.0-4.0	ND	6.24	ND	ND	ND	6.24
	HH-35 (4.0-5.0)	9/30/2013	09604-008	4.0-5.0	ND	1.93	0.487	ND	ND	2.417
	HH-35 (5.0-6.0)	12/2/2013	11911-007	5.0-6.0	ND	0.261	ND	ND	ND	0.261
HH-35N	HH-35N (4.0-5.0)	9/30/2013	09604-009	4.0-5.0	ND	0.568	0.298	ND	ND	0.866
HH-36	HH-36 (0-1.0)	8/29/2012	08776-025	0.0-1.0	ND	229	ND	ND	ND	229
	HH-36 (1.0-2.0)	8/29/2012	08776-026	1.0-2.0	ND	108	ND	ND	ND	108
	HH-36 (2.0-3.0)	8/29/2012	08776-027	2.0-3.0	ND	8.54	ND	ND	ND	8.54
	HH-36 (3.0-4.0)	8/29/2012	08776-028	3.0-4.0	ND	ND	ND	ND	ND	0
HH-36W	HH-36W (4.0-5.0)	9/30/2013	09604-006	4.0-5.0	ND	0.349	0.133	ND	ND	0.482
HH-37	HH-37 (0-1.0)	10/5/2012	10211-001	0.0-1.0	ND	11	ND	ND	ND	11
	HH-37 (1.0-2.0)	10/5/2012	10211-002	1.0-2.0	ND	ND	ND	ND	ND	0
	HH-37 (2.0-3.0)	10/5/2012	10211-003	2.0-3.0	ND	ND	ND	ND	ND	0
	HH-37 (3.0-4.0)	10/5/2012	10211-004	3.0-4.0	ND	ND	ND	ND	ND	0
HH-37E	HH-37E (2.0-3.0)	10/15/2013	10227-005	2.0-3.0	ND	0.647	ND	ND	ND	0.647
HH-38	HH-38 (0-1.0)	10/9/2013	10033-003	0.0-1.0	ND	14.5	9.31	ND	ND	23.81
	HH-38 (1.0-2.0)	10/9/2013	10033-004	1.0-2.0	ND	ND	ND	ND	ND	0
	HH-38 (2.0-3.0)	10/9/2013	10033-005	2.0-3.0	ND	ND	ND	ND	ND	0
HH-39	HH-39 (0-1.0)	10/9/2013	10033-001	0.0-1.0	ND	4.78	ND	ND	ND	4.78
	HH-39 (1.0-2.0)	10/9/2013	10033-002	1.0-2.0	ND	ND	ND	ND	ND	0
	HH-39 (2.0-3.0)	12/26/2013	12711-001	2.0-3.0	ND	ND	ND	ND	ND	0
	HH-39 (3.0-4.0)	12/26/2013	12711-002	3.0-4.0	ND	ND	ND	ND	ND	0
HH-40	HH-40 (0-1.0)	10/11/2013	10150-003	0.0-1.0	ND	33.9	ND	ND	ND	33.9
	HH-40 (1.0-2.0)	10/11/2013	10150-004	1.0-2.0	1980	ND	ND	ND	ND	1980
	HH-40 (2.0-3.0)	11/25/2013	11775-001	2.0-3.0	ND	25.2	ND	ND	ND	25.2
	HH-40 (3.0-4.0)	11/25/2013	11775-002	3.0-4.0	ND	2.41	ND	ND	ND	2.41
HH-41	HH-41 (0-1.0)	10/11/2013	10150-011	0.0-1.0	ND	3.39	ND	ND	ND	3.39
	HH-41 (1.0-2.0)	10/11/2013	10150-012	1.0-2.0	ND	0.812	ND	ND	ND	0.812
	HH-41 (2.0-3.0)	12/26/2013	12711-009	2.0-3.0	ND	ND	ND	ND	ND	0
	HH-41 (3.0-4.0)	12/26/2013	12711-010	3.0-4.0	ND	ND	ND	ND	ND	0
HH-42	HH-42 (0-1.0)	10/11/2013	10150-013	0.0-1.0	ND	66.7	ND	ND	ND	66.7
	HH-42 (1.0-2.0)	10/11/2013	10150-014	1.0-2.0	ND	ND	ND	ND	ND	0
	HH-42 (2.0-3.0)	12/26/2013	12711-011	2.0-3.0	ND	ND	ND	ND	ND	0
HH-43	HH-43 (0-1.0)	10/14/2013	10192-004	0.0-1.0	ND	1.85	ND	ND	ND	1.85
	HH-43 (1.0-2.0)	10/14/2013	10192-005	1.0-2.0	ND	0.588	ND	ND	ND	0.588
	HH-43 (2.0-3.0)	1/9/2014	00234-013	2.0-3.0	ND	ND	ND	ND	ND	0
HH-44	HH-44 (0-1.0)	10/15/2013	10227-012	0.0-1.0	ND	6.92	ND	ND	ND	6.92
	HH-44 (1.0-2.0)	10/15/2013	10227-013	1.0-2.0	ND	39.6	ND	ND	ND	39.6
	HH-44 (2.0-3.0)	11/25/2013	11775-003	2.0-3.0	ND	0.58	ND	ND	ND	0.58
HH-45	HH-45 (0-1.0)	10/15/2013	10227-010	0.0-1.0	ND	1.5	ND	ND	ND	1.5
	HH-45 (1.0-2.0)	10/15/2013	10227-011	1.0-2.0	ND	0.101	ND	ND	ND	0.101
HH-46	HH-46 (0-1.0)	11/18/2013	11510-005	0.0-1.0	ND	ND	0.252	ND	ND	0.252
II-34	II-34 (0-1.0)	8/29/2012	08776-001	0.0-1.0	ND	1340	ND	ND	ND	1340
	II-34 (1.0-2.0)	8/29/2012	08776-002	1.0-2.0	ND	4860	ND	ND	ND	4860
	II-34 (2.0-3.0)	8/29/2012	08776-003	2.0-3.0	ND	1350	ND	ND	ND	1350
	II-34 (3.0-4.0)	8/29/2012	08776-004	3.0-4.0	ND	838	ND	ND	ND	838
	II-34 (4.0-5.0)	10/11/2012	10376-021	4.0-5.0	ND	ND	ND	ND	ND	0
	II-34 (5.0-6.0)	10/11/2012	10376-022	5.0-6.0	ND	1.2	ND	ND	ND	1.2
	II-34 (6.0-7.0)	10/11/2012	10376-023	6.0-7.0	ND	0.032	ND	ND	ND	0.032
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GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
II-34N	II-34N (4.0-5.0)	10/10/2013	10103-010	4.0-5.0	ND	16.2	D	ND	ND	16.2
	II-34N (5.0-6.0)	10/10/2013	10103-011	5.0-6.0	ND	0.597	ND	ND	ND	0.597
II-35	II-35 (0-1.0)	8/29/2012	08776-021	0.0-1.0	ND	48.2	ND	ND	ND	48.2
	II-35 (1.0-2.0)	8/29/2012	08776-022	1.0-2.0	ND	124	ND	ND	ND	124
	II-35 (2.0-3.0)	8/29/2012	08776-023	2.0-3.0	ND	3.49	ND	ND	ND	3.49
	II-35 (3.0-4.0)	8/29/2012	08776-024	3.0-4.0	ND	1.42	ND	ND	ND	1.42
	II-35 (4.0-5.0)	10/16/2013	10300-002	4.0-5.0	ND	0.062	ND	ND	ND	0.062
	II-35 (5.0-6.0)	11/12/2013	11284-001	5.0-6.0	ND	ND	ND	ND	ND	0
II-35R	II-35R (5.0-6.0)	10/10/2013	10103-009	5.0-6.0	ND	ND	ND	ND	ND	0
II-35N	II-35N (4.0-5.0)	10/11/2013	10150-015	4.0-5.0	ND	0.165	ND	ND	ND	0.165
II-36	II-36 (0-1.0)	8/29/2012	08776-017	0.0-1.0	ND	10.1	ND	ND	ND	10.1
	II-36 (1.0-2.0)	8/29/2012	08776-018	1.0-2.0	ND	2.19	ND	ND	ND	2.19
	II-36 (2.0-3.0)	8/29/2012	08776-019	2.0-3.0	ND	0.535	ND	ND	ND	0.535
	II-36 (3.0-4.0)	8/29/2012	08776-020	3.0-4.0	ND	ND	ND	ND	ND	0
II-37	II-37 (0-1.0)	10/5/2012	10211-017	0.0-1.0	ND	5.32	ND	ND	ND	5.32
	II-37 (1.0-2.0)	10/5/2012	10211-018	1.0-2.0	ND	5.2	ND	ND	ND	5.2
	II-37 (2.0-3.0)	10/5/2012	10211-019	2.0-3.0	ND	ND	ND	ND	ND	0
	II-37 (3.0-4.0)	10/5/2012	10211-020	3.0-4.0	ND	ND	ND	ND	ND	0
II-38	II-38 (0-1.0)	10/10/2013	10103-004	0.0-1.0	ND	63	D	ND	ND	63
	II-38 (1.0-2.0)	10/10/2013	10103-005	1.0-2.0	ND	5.66	ND	ND	ND	5.66
	II-38 (2.0-3.0)	10/10/2013	10103-006	2.0-3.0	ND	0.194	ND	ND	ND	0.194
II-39	II-39 (0-1.0)	10/11/2013	10150-001	0.0-1.0	ND	11.5	ND	ND	ND	11.5
	II-39 (1.0-2.0)	10/11/2013	10150-002	1.0-2.0	ND	0.499	ND	ND	ND	0.499
	II-39 (2.0-3.0)	12/26/2013	12711-003	2.0-3.0	ND	0.06	ND	ND	ND	0.06
	II-39 (3.0-4.0)	12/26/2013	12711-004	3.0-4.0	ND	ND	ND	ND	ND	0
II-40	II-40 (0-1.0)	10/11/2013	10150-005	0.0-1.0	ND	0.868	ND	ND	ND	0.868
	II-40 (1.0-2.0)	10/11/2013	10150-006	1.0-2.0	ND	ND	ND	ND	ND	0
	II-40 (2.0-3.0)	12/26/2013	12711-005	2.0-3.0	ND	ND	ND	ND	ND	0
	II-40 (3.0-4.0)	12/26/2013	12711-006	3.0-4.0	ND	ND	ND	ND	ND	0
II-41	II-41 (0-1.0)	10/11/2013	10150-009	0.0-1.0	ND	5	4.94	ND	ND	9.94
	II-41 (1.0-2.0)	10/11/2013	10150-010	1.0-2.0	ND	ND	ND	ND	ND	0
	II-41 (2.0-3.0)	12/26/2013	12711-007	2.0-3.0	ND	ND	ND	ND	ND	0
	II-41 (3.0-4.0)	12/26/2013	12711-008	3.0-4.0	ND	ND	ND	ND	ND	0
II-42	II-42 (0-1.0)	10/11/2013	10150-007	0.0-1.0	ND	1.2	ND	ND	ND	1.2
	II-42 (1.0-2.0)	10/11/2013	10150-008	1.0-2.0	ND	ND	ND	ND	ND	0
	II-42 (2.0-3.0)	12/26/2013	12711-013	2.0-3.0	ND	ND	ND	ND	ND	0
II-43	II-43 (0-1.0)	10/15/2013	10227-006	0.0-1.0	ND	8.86	ND	ND	ND	8.86
	II-43 (1.0-2.0)	10/15/2013	10227-007	1.0-2.0	ND	9.88	D	ND	ND	9.88
	II-43 (2.0-3.0)	11/15/2013	11458-007	2.0-3.0	ND	27.9	D	ND	ND	27.9
II-43	II-43 (3.0-4.0)	1/9/2014	00234-011	3.0-4.0	ND	0.442	ND	ND	ND	0.442
II-44	II-44 (0-1.0)	12/2/2013	11911-004	0.0-1.0	ND	ND	ND	ND	ND	0
	II-44 (1.0-2.0)	12/2/2013	11911-005	1.0-2.0	ND	0.246	ND	ND	ND	0.246
	II-44 (2.0-3.0)	12/2/2013	11911-006	2.0-3.0	ND	21.5	ND	ND	ND	21.5
II-45	II-45 (0-1.0)	12/2/2013	11911-001	0.0-1.0	ND	0.435	0.552	ND	ND	0.987
	II-45 (1.0-2.0)	12/2/2013	11911-002	1.0-2.0	ND	ND	ND	ND	ND	0
II-46	II-46 (0-1.0)	11/19/2013	11556-012	0.0-1.0	ND	ND	ND	ND	ND	0
	T2-G6 (B)	9/6/1995	G-6	2-2.5'	ND	0.044	0.12	0.084	NA	0.248
	T2-G6 (A)	9/6/1995	G-6	0-0.5'	ND	0.047	0.1	0.079	NA	0.226
JJ-33	JJ-33 (0-1.0)	8/29/2012	08776-005	0.0-1.0	ND	268	ND	ND	ND	268
	JJ-33 (1.0-2.0)	8/29/2012	08776-006	1.0-2.0	ND	27.7	ND	ND	ND	27.7
	JJ-33 (2.0-3.0)	8/29/2012	08776-007	2.0-3.0	ND	257	ND	ND	ND	257
	JJ-33 (3.0-4.0)	8/29/2012	08776-008	3.0-4.0	ND	79.7	ND	ND	ND	79.7
	JJ-33 (4.0-5.0)	10/5/2012	10211-021	4.0-5.0	ND	ND	ND	ND	ND	0
	JJ-33 (5.0-6.0)	10/5/2012	10211-022	5.0-6.0	ND	0.039	J	ND	ND	0.039
	JJ-33 (6.0-7.0)	10/5/2012	10211-023	6.0-7.0	ND	2.06	ND	ND	ND	2.06
	JJ-33 (7.0-8.0)	10/5/2012	10211-024	7.0-8.0	ND	0.114	ND	ND	ND	0.114
JJ-33R	JJ-33R (6.0-7.0)	9/30/2013	09604-004	6.0-7.0	ND	ND	ND	ND	ND	0
JJ-33E	JJ-33E (6.0-7.0)	9/30/2013	09604-003	6.0-7.0	ND	ND	ND	ND	ND	0

TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
JJ-34R	JJ-34R (4.0-5.0)	9/30/2013	09604-001	4.0-5.0	ND	ND	ND	ND	ND	0
	JJ-34R (5.0-6.0)	9/30/2013	09604-002	5.0-6.0	ND	ND	ND	ND	ND	0
JJ-34	JJ-34 (0-1.0)	8/29/2012	08776-009	0.0-1.0	ND	797	ND	ND	ND	797
	JJ-34 (1.0-2.0)	8/29/2012	08776-010	1.0-2.0	ND	728	ND	ND	ND	728
	JJ-34 (2.0-3.0)	8/29/2012	08776-011	2.0-3.0	ND	141	ND	ND	ND	141
	JJ-34 (3.0-4.0)	8/29/2012	08776-012	3.0-4.0	ND	39.8	ND	ND	ND	39.8
	JJ-34 (4.0-5.0)	10/4/2012	10140-021	4.0-5.0	ND	1.2	ND	ND	ND	1.2
	JJ-34 (5.0-6.0)	10/4/2012	10140-022	5.0-6.0	ND	0.985	ND	ND	ND	0.985
	JJ-34 (6.0-7.0)	10/4/2012	10140-023	6.0-7.0	ND	ND	ND	ND	ND	0
JJ-35	JJ-35 (0-1.0)	10/5/2012	10211-009	0.0-1.0	ND	7.55	ND	ND	ND	7.55
	JJ-35 (1.0-2.0)	10/5/2012	10211-010	1.0-2.0	ND	24.9	ND	ND	ND	24.9
	JJ-35 (2.0-3.0)	10/5/2012	10211-011	2.0-3.0	ND	ND	ND	ND	ND	0
	JJ-35 (3.0-4.0)	10/5/2012	10211-012	3.0-4.0	ND	ND	ND	ND	ND	0
JJ-36	JJ-36 (0-1.0)	10/5/2012	10211-005	0.0-1.0	ND	4.98	ND	ND	ND	4.98
	JJ-36 (1.0-2.0)	10/5/2012	10211-006	1.0-2.0	ND	ND	ND	ND	ND	0
	JJ-36 (2.0-3.0)	10/5/2012	10211-007	2.0-3.0	ND	2.15	ND	ND	ND	2.15
	JJ-36 (3.0-4.0)	10/5/2012	10211-008	3.0-4.0	ND	ND	ND	ND	ND	0
JJ-38	JJ-38 (0-1.0)	10/10/2013	10103-001	0.0-1.0	ND	3.8	3.38	ND	ND	7.18
	JJ-38 (1.0-2.0)	10/10/2013	10103-002	1.0-2.0	ND	0.759	ND	ND	ND	0.759
	JJ-38 (2.0-3.0)	10/10/2013	10103-003	2.0-3.0	ND	ND	ND	ND	ND	0
JJ-39	JJ-39 (0-1.0)	10/10/2013	10103-007	0.0-1.0	ND	1.08	ND	ND	ND	1.08
	JJ-39 (1.0-2.0)	10/10/2013	10103-008	1.0-2.0	ND	0.552	ND	ND	ND	0.552
	JJ-39 (2.0-3.0)	11/14/2013	11406-013	2.0-3.0	ND	ND	ND	ND	ND	0
JJ-40	JJ-40 (0-1.0)	11/14/2013	11406-014	0.0-1.0	ND	28	ND	ND	ND	28
	JJ-40 (1.0-2.0)	11/14/2013	11406-015	1.0-2.0	ND	ND	ND	ND	ND	0
	T2-G3 (A)	9/7/1995	G-3	0-0.5'	ND	3.6	ND	0.35	NA	3.95
	T2-G3 (B)	9/7/1995	G-3	2-2.5'	ND	4.4	ND	0.3	NA	4.7
	T2-G3(N)	6/26/1996	G-3	3.5-4.0'	ND	ND	ND	ND	NA	0
JJ-41	JJ-41 (0-1.0)	11/15/2013	11458-003	0.0-1.0	ND	1.57	ND	ND	ND	1.57
	JJ-41 (1.0-2.0)	11/15/2013	11458-004	1.0-2.0	ND	ND	ND	ND	ND	0
JJ-42	JJ-42 (0-1.0)	11/15/2013	11458-005	0.0-1.0	ND	11.8	ND	ND	ND	11.8
	JJ-42 (1.0-2.0)	11/15/2013	11458-006	1.0-2.0	ND	19.6	ND	ND	ND	19.6
	JJ-42 (2.0-3.0)	1/9/2014	00234-016	2.0-3.0	ND	0.33	ND	ND	ND	0.33
JJ-43	JJ-43 (0-1.0)	12/2/2013	11911-009	0.0-1.0	ND	2.27	2.54	ND	ND	4.81
	JJ-43 (1.0-2.0)	12/2/2013	11911-010	1.0-2.0	ND	2.18	ND	ND	ND	2.18
	JJ-43 (2.0-3.0)	12/2/2013	11911-011	2.0-3.0	ND	ND	ND	ND	ND	0
JJ-44	JJ-44 (0-1.0)	12/2/2013	11911-012	0.0-1.0	ND	ND	ND	ND	ND	0
	JJ-44 (1.0-2.0)	12/2/2013	11911-013	1.0-2.0	ND	ND	ND	ND	ND	0
	JJ-44 (2.0-3.0)	12/2/2013	11911-014	2.0-3.0	ND	ND	ND	ND	ND	0
KK-32	KK-32 (0-1.0)	8/30/2012	08824-005	0.0-1.0	ND	88.7	ND	ND	ND	88.7
	KK-32 (1.0-2.0)	8/30/2012	08824-006	1.0-2.0	ND	217	ND	ND	ND	217
	KK-32 (2.0-3.0)	8/30/2012	08824-007	2.0-3.0	ND	8.86	ND	ND	ND	8.86
	KK-32 (3.0-4.0)	8/30/2012	08824-008	3.0-4.0	ND	1.04	ND	ND	ND	1.04
	KK-32 (4.0-5.0)	10/15/2013	10227-001	4.0-5.0	ND	0.153	ND	ND	ND	0.153
KK-33	KK-33 (0-1.0)	8/30/2012	08824-001	0.0-1.0	ND	13.6	ND	ND	ND	13.6
	KK-33 (1.0-2.0)	8/30/2012	08824-002	1.0-2.0	ND	0.636	ND	ND	ND	0.636
	KK-33 (2.0-3.0)	8/30/2012	08824-003	2.0-3.0	ND	ND	ND	ND	ND	0
	KK-33 (3.0-4.0)	8/30/2012	08824-004	3.0-4.0	ND	ND	ND	ND	ND	0
KK-33R	KK-33R (3.0-4.0)	10/2/2013	09749-008	3.0-4.0	ND	ND	ND	ND	ND	0
KK-34	KK-34 (0-1.0)	10/4/2012	10140-017	0.0-1.0	ND	9.88	ND	ND	ND	9.88
	KK-34 (1.0-2.0)	10/4/2012	10140-018	1.0-2.0	ND	ND	ND	ND	ND	0
	KK-34 (2.0-3.0)	10/4/2012	10140-019	2.0-3.0	ND	ND	ND	ND	ND	0
	KK-34 (3.0-4.0)	10/4/2012	10140-020	3.0-4.0	ND	ND	ND	ND	ND	0
KK-34R	KK-34R (0-1.0)	10/2/2013	09749-004	0.0-1.0	ND	3.21	3.1	ND	ND	6.31
	KK-34R (1.0-2.0)	10/2/2013	09749-005	1.0-2.0	ND	ND	ND	ND	ND	0
	KK-34R (2.0-3.0)	10/2/2013	09749-006	2.0-3.0	ND	ND	ND	ND	ND	0
	KK-34R (3.0-4.0)	10/2/2013	09749-007	3.0-4.0	ND	ND	ND	ND	ND	0
KK-35	KK-35 (0-1.0)	10/4/2012	10140-009	0.0-1.0	ND	13.4	ND	ND	ND	13.4
	KK-35 (1.0-2.0)	10/4/2012	10140-010	1.0-2.0	ND	3.01	ND	ND	ND	3.01
	KK-35 (2.0-3.0)	10/4/2012	10140-011	2.0-3.0	ND	0.515	ND	ND	ND	0.515
	KK-35 (3.0-4.0)	10/4/2012	10140-012	3.0-4.0	ND	ND	ND	ND	ND	0

TABLE 2
ARSYNCO, INC
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TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

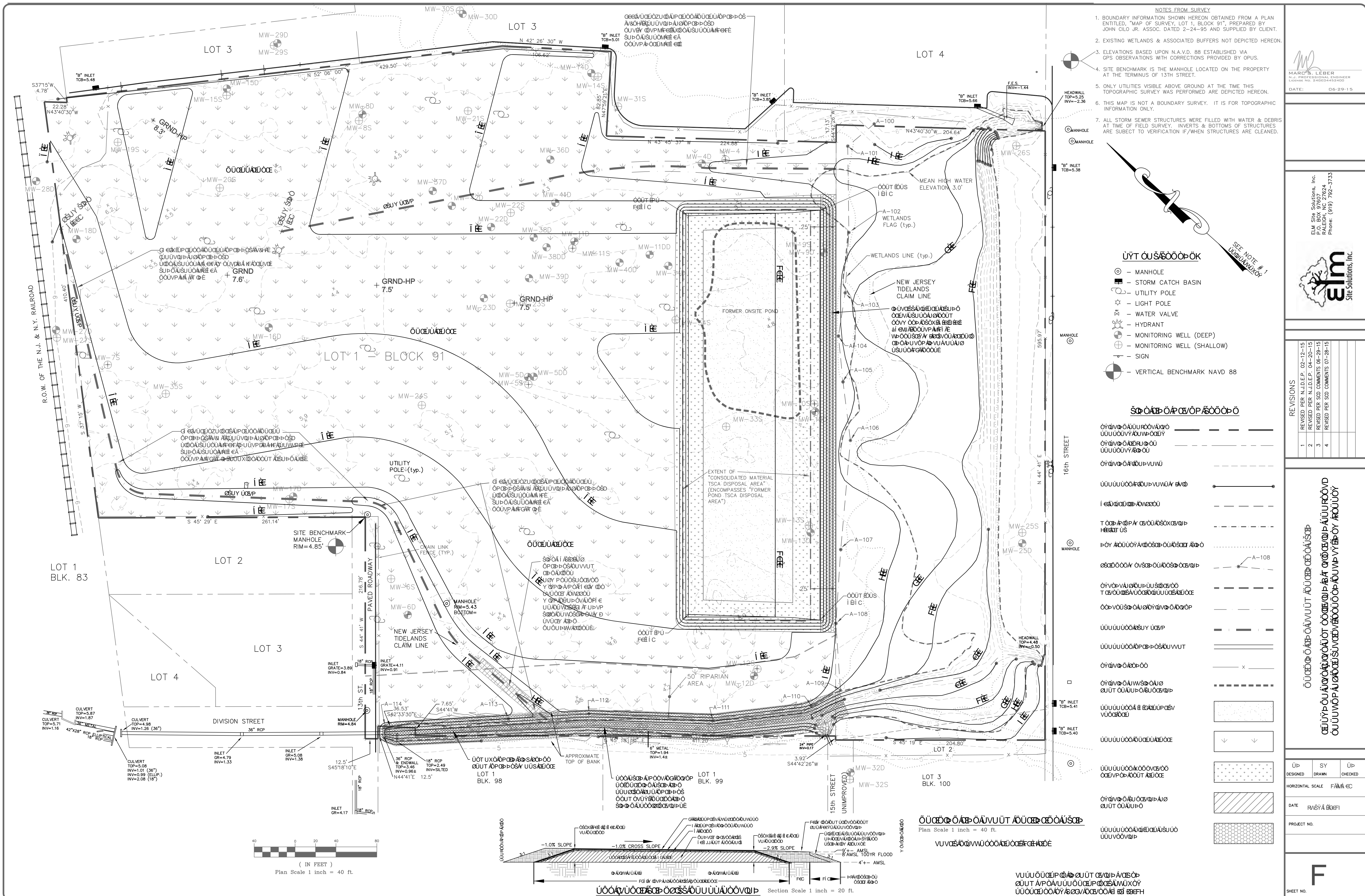
GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
KK-35R	KK-35R (0-1.0)	10/2/2013	09749-001	0.0-1.0	ND	1.5	1.41	ND	ND	2.91
	KK-35R (1.0-2.0)	10/2/2013	09749-002	1.0-2.0	ND	0.466	ND	ND	ND	0.466
	KK-35R (2.0-3.0)	10/2/2013	09749-003	2.0-3.0	ND	ND	ND	ND	ND	0
KK-36	KK-36 (0-1.0)	10/4/2012	10140-005	0.0-1.0	ND	5.86	ND	ND	ND	5.86
	KK-36 (1.0-2.0)	10/4/2012	10140-006	1.0-2.0	ND	13.4	ND	ND	ND	13.4
	KK-36 (2.0-3.0)	10/4/2012	10140-007	2.0-3.0	ND	0.575	ND	ND	ND	0.575
	KK-36 (3.0-4.0)	10/4/2012	10140-008	3.0-4.0	ND	ND	ND	ND	ND	0
KK-36R	KK-36R (0-1.0)	10/1/2013	09643-001	0.0-1.0	ND	41.4	22.5	ND	ND	63.9
	KK-36R (1.0-2.0)	10/1/2013	09643-002	1.0-2.0	ND	ND	ND	ND	ND	0
KK-37	KK-37 (0-1.0)	10/1/2013	09643-003	0.0-1.0	ND	3.34	2.73	ND	ND	6.07
	KK-37 (1.0-2.0)	10/1/2013	09643-004	1.0-2.0	ND	ND	ND	ND	ND	0
	KK-37 (2.0-3.0)	10/1/2013	09643-005	2.0-3.0	ND	ND	ND	ND	ND	0
KK-37W	KK-37W (0-1.0)	10/15/2013	10227-002	0.0-1.0	ND	44.1	ND	ND	ND	44.1
	KK-37W (1.0-2.0)	10/15/2013	10227-003	1.0-2.0	ND	0.957	ND	ND	ND	0.957
	KK-37W (2.0-3.0)	10/15/2013	10227-004	2.0-3.0	ND	ND	ND	ND	ND	0
KK-38	KK-38 (0-1.0)	10/1/2013	09643-006	0.0-1.0	ND	4.68	2.86	ND	ND	7.54
	KK-38 (1.0-2.0)	10/1/2013	09643-007	1.0-2.0	ND	7.89	4.98	ND	ND	12.87
	KK-38 (2.0-3.0)	11/26/2013	11822-014	2.0-3.0	ND	ND	ND	ND	ND	0
KK-39	KK-39 (0-1.0)	10/1/2013	09643-008	0.0-1.0	ND	7.36	5.98	ND	ND	13.34
	KK-39 (1.0-2.0)	10/1/2013	09643-009	1.0-2.0	ND	2.21	1.45	ND	ND	3.66
KK-40	KK-40 (0-1.0)	11/13/2013	11347-007	0.0-1.0	ND	2.73	ND	ND	ND	2.73
	KK-40 (1.0-2.0)	11/13/2013	11347-008	1.0-2.0	ND	0.379	ND	ND	ND	0.379
KK-41	KK-41 (0-1.0)	11/13/2013	11347-009	0.0-1.0	ND	33.7	ND	ND	ND	33.7
	KK-41 (1.0-2.0)	11/13/2013	11347-010	1.0-2.0	78.4	ND	ND	ND	ND	78.4
	KK-41 (2.0-3.0)	1/9/2014	00234-014	2.0-3.0	ND	0.031	ND	ND	ND	0.031
KK-42	KK-42 (0-1.0)	12/9/2013	12226-004	0.0-1.0	ND	10.1	11.9	ND	ND	22
	KK-42 (1.0-2.0)	12/9/2013	12226-005	1.0-2.0	ND	8.74	6.28	ND	ND	15.02
	KK-42 (2.0-3.0)	1/28/2014	00759-002	2.0-3.0	ND	4.4	ND	ND	ND	4.4
KK-43	KK-43 (0-1.0)	12/9/2013	12226-001	0.0-1.0	ND	0.086	ND	ND	ND	0.086
	KK-43 (1.0-2.0)	12/9/2013	12226-002	1.0-2.0	ND	4.18	2.78	ND	ND	6.96
	KK-43 (2.0-3.0)	1/27/2014	00716-009	2.0-3.0	ND	1.22	ND	ND	ND	1.22
LL-31	LL-31 (0-1.0)	11/15/2013	11458-001	0.0-1.0	ND	9.98	ND	ND	ND	9.98
	LL-31 (1.0-2.0)	11/15/2013	11458-002	1.0-2.0	ND	1.62	ND	ND	ND	1.62
	LL-31 (2.0-3.0)	10/3/2013	09822-001	2.0-3.0	ND	ND	ND	ND	ND	0
LL-31S	LL-31S (0-1.0)	10/3/2013	09822-002	0.0-1.0	ND	40.5	ND	ND	ND	40.5
	LL-31S (1.0-2.0)	10/3/2013	09822-003	1.0-2.0	ND	0.799	ND	ND	ND	0.799
	LL-31S (2.0-3.0)	10/3/2013	09822-004	2.0-3.0	ND	0.108	ND	ND	ND	0.108
	LL-31S (3.0-4.0)	10/3/2013	09822-005	3.0-4.0	ND	ND	ND	ND	ND	0
LL-32	LL-32 (0-1.0)	8/30/2012	08824-009	0.0-1.0	ND	38.2	ND	ND	ND	38.2
	LL-32 (1.0-2.0)	8/30/2012	08824-010	1.0-2.0	ND	2.7	ND	ND	ND	2.7
	LL-32 (2.0-3.0)	8/30/2012	08824-011	2.0-3.0	ND	1.51	ND	ND	ND	1.51
	LL-32 (3.0-4.0)	8/30/2012	08824-012	3.0-4.0	ND	ND	ND	ND	ND	0
LL-33	LL-33 (0-1.0)	10/4/2012	10140-013	0.0-1.0	ND	14.4	ND	ND	ND	14.4
	LL-33 (1.0-2.0)	10/4/2012	10140-014	1.0-2.0	ND	3.51	ND	ND	ND	3.51
	LL-33 (2.0-3.0)	10/4/2012	10140-015	2.0-3.0	ND	ND	ND	ND	ND	0
	LL-33 (3.0-4.0)	10/4/2012	10140-016	3.0-4.0	ND	ND	ND	ND	ND	0
LL-37	LL-37 (0-1.0)	10/2/2013	09749-023	0.0-1.0	ND	0.609	ND	ND	ND	0.609
	LL-37 (1.0-2.0)	10/2/2013	09749-024	1.0-2.0	ND	ND	ND	ND	ND	0
	LL-37 (2.0-3.0)	10/2/2013	09749-025	2.0-3.0	ND	ND	ND	ND	ND	0
LL-38	LL-38 (0-1.0)	10/2/2013	09749-019	0.0-1.0	ND	16.7	ND	ND	ND	16.7
	LL-38 (1.0-2.0)	10/2/2013	09749-020	1.0-2.0	ND	0.821	ND	ND	ND	0.821
LL-39	LL-39 (0-1.0)	10/2/2013	09749-021	0.0-1.0	ND	6.16	7.79	ND	ND	13.95
	LL-39 (1.0-2.0)	10/2/2013	09749-022	1.0-2.0	ND	18.9	ND	ND	ND	18.9
	LL-39 (2.0-3.0)	11/26/2013	11822-015	2.0-3.0	ND	ND	ND	ND	ND	0
LL-40	LL-40 (0-1.0)	11/13/2013	11347-011	0.0-1.0	ND	37.8	ND	ND	ND	37.8
	LL-40 (1.0-2.0)	11/13/2013	11347-012	1.0-2.0	31	22.5	ND	ND	ND	53.5
	LL-40 (2.0-3.0)	12/30/2013	12780-012	2.0-3.0	ND	ND	ND	ND	ND	0

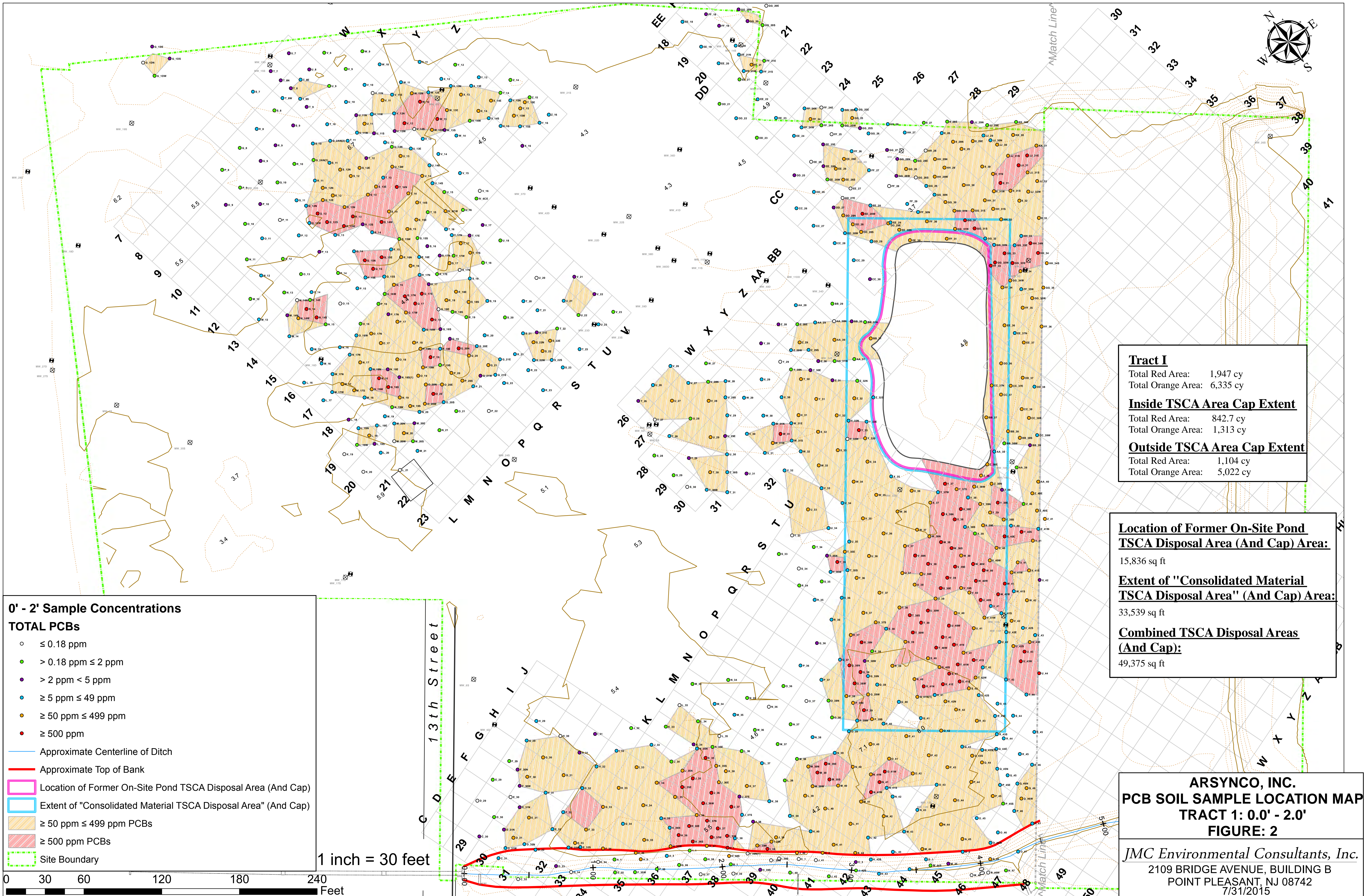
TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
LL-41	LL-41 (0-1.0)	11/13/2013	11347-013	0.0-1.0	ND	4.04	ND	ND	ND	4.04
	LL-41 (1.0-2.0)	11/13/2013	11347-014	1.0-2.0	ND	ND	ND	ND	ND	0
LL-42	LL-42 (0-1.0)	12/9/2013	12226-007	0.0-1.0	ND	1.73	2.02	ND	ND	3.75
	LL-42 (1.0-2.0)	12/9/2013	12226-008	1.0-2.0	ND	4.09	3.26	ND	ND	7.35
MM-31	MM-31 (0-1.0)	12/30/2013	12780-001	0.0-1.0	ND	2.76	ND	ND	ND	2.76
	MM-31 (1.0-2.0)	12/30/2013	12780-002	1.0-2.0	ND	ND	ND	ND	ND	0
MM-32	MM-32 (0-1.0)	10/3/2013	09822-006	0.0-1.0	ND	0.511	0.499	ND	ND	1.01
	MM-32 (1.0-2.0)	10/3/2013	09822-007	1.0-2.0	ND	0.082	ND	ND	ND	0.082
	MM-32 (2.0-3.0)	10/3/2013	09822-008	2.0-3.0	ND	ND	ND	ND	ND	0
MM-33	MM-33 (0-1.0)	10/2/2013	09749-009	0.0-1.0	ND	40.8	D 21.1	ND	ND	61.9
	MM-33 (1.0-2.0)	10/2/2013	09749-010	1.0-2.0	ND	ND	ND	ND	ND	0
MM-34	MM-34 (0-1.0)	10/3/2013	09822-009	0.0-1.0	ND	13.9	ND	ND	ND	13.9
	MM-34 (1.0-2.0)	10/3/2013	09822-010	1.0-2.0	ND	1.93	ND	ND	ND	1.93
	MM-34 (2.0-3.0)	11/12/2013	11284-002	2.0-3.0	ND	ND	ND	ND	ND	0
MM-35	MM-35 (0-1.0)	10/3/2013	09822-015	0.0-1.0	ND	8.76	ND	ND	ND	8.76
	MM-35 (1.0-2.0)	10/3/2013	09822-016	1.0-2.0	ND	ND	ND	ND	ND	0
	MM-35 (2.0-3.0)	10/3/2013	09822-017	2.0-3.0	ND	ND	ND	ND	ND	0
MM-36	MM-36 (0-1.0)	10/2/2013	09749-011	0.0-1.0	ND	1.54	1.31	ND	ND	2.85
	MM-36 (1.0-2.0)	10/2/2013	09749-012	1.0-2.0	ND	45.6	D 13.4	ND	ND	59
	MM-36 (2.0-3.0)	10/2/2013	09749-013	2.0-3.0	ND	0.084	ND	ND	ND	0.084
MM-37	MM-37 (0-1.0)	10/2/2013	09749-014	0.0-1.0	ND	5.78	4.85	ND	ND	10.63
	MM-37 (1.0-2.0)	10/2/2013	09749-015	1.0-2.0	ND	0.924	ND	ND	ND	0.924
	MM-37 (2.0-3.0)	10/2/2013	09749-016	2.0-3.0	ND	ND	ND	ND	ND	0
	T2-G1 (A)	9/7/1995	G-1	0-0.5'	ND	2.1	ND	0.29	NA	2.39
	T2-G1 (B)	9/7/1995	G-1	2-2.5'	ND	8.1	ND	0.66	NA	8.76
MM-38	MM-38 (0-1.0)	10/2/2013	09749-017	0.0-1.0	ND	0.462	0.633	ND	ND	1.095
	MM-38 (1.0-2.0)	10/2/2013	09749-018	1.0-2.0	ND	3.55	3.07	ND	ND	6.62
	MM-38 (2.0-3.0)	11/26/2013	11822-016	2.0-3.0	ND	ND	ND	ND	ND	0
MM-39	MM-39 (0-1.0)	11/13/2013	11347-015	0.0-1.0	43.5	D ND	ND	ND	ND	43.5
	MM-39 (1.0-2.0)	11/13/2013	11347-016	1.0-2.0	359	D ND	ND	ND	ND	359
	MM-39 (2.0-3.0)	12/30/2013	12780-014	2.0-3.0	ND	ND	ND	ND	ND	0
MM-40	MM-40 (0-1.0)	11/14/2013	11406-007	0.0-1.0	ND	7.15	6.37	ND	ND	13.52
	MM-40 (1.0-2.0)	11/14/2013	11406-008	1.0-2.0	ND	0.6	ND	ND	ND	0.6
MM-41	MM-41 (0-1.0)	12/13/2013	12400-001	0.0-1.0	ND	6.11	3.83	ND	ND	9.94
MM-42	MM-42 (0-1.0)	12/9/2013	12226-010	0.0-1.0	ND	5.15	ND	ND	ND	5.15
MM-43	T2-G4 (A)	9/6/1995	G-4	0-0.5'	ND	0.9	ND	0.17	NA	1.07
	T2-G4 (B)	9/6/1995	G-4	2-2.5'	ND	1.4	ND	0.19	NA	1.59
	T2-G4 (C)	5/8/2002	G-4	3-3.5'	ND	ND	0.05	ND	NA	0.05
	T2-G4(D)	5/8/2002	G-4	0-0.5'	ND	ND	0.1	ND	NA	0.1
	T2-G4(E)	5/8/2002	G-4	2-2.5'	ND	ND	ND	ND	NA	0
NN-32	NN-32 (0-1.0)	12/30/2013	12780-003	0.0-1.0	ND	3.47	ND	ND	ND	3.47
	NN-32 (1.0-2.0)	12/30/2013	12780-004	1.0-2.0	ND	2.34	ND	ND	ND	2.34
NN-33	NN-33 (0-1.0)	10/3/2013	09822-013	0.0-1.0	ND	0.508	ND	ND	ND	0.508
	NN-33 (1.0-2.0)	10/3/2013	09822-014	1.0-2.0	ND	3.97	3.09	ND	ND	7.06
	NN-33 (2.0-3.0)	11/26/2013	11822-019	2.0-3.0	ND	ND	ND	ND	ND	0
NN-34	NN-34 (0-1.0)	10/3/2013	09822-011	0.0-1.0	ND	8.37	7.29	ND	ND	15.66
	NN-34 (1.0-2.0)	10/3/2013	09822-012	1.0-2.0	ND	ND	ND	ND	ND	0
NN-35	NN-35 (0-1.0)	10/3/2013	09822-018	0.0-1.0	ND	12.5	ND	ND	ND	12.5
	NN-35 (1.0-2.0)	10/3/2013	09822-019	1.0-2.0	ND	32.1	ND	ND	ND	32.1
	NN-35 (2.0-3.0)	11/26/2013	11822-017	2.0-3.0	ND	0.064	ND	ND	ND	0.064
NN-36	NN-36 (0-1.0)	10/3/2013	09822-022	0.0-1.0	ND	7.76	ND	ND	ND	7.76
	NN-36 (1.0-2.0)	10/3/2013	09822-023	1.0-2.0	ND	ND	ND	ND	ND	0
NN-37	NN-37 (0-1.0)	10/3/2013	09822-020	0.0-1.0	ND	5.26	ND	ND	ND	5.26
	NN-37 (1.0-2.0)	10/3/2013	09822-021	1.0-2.0	ND	1.38	ND	ND	ND	1.38
NN-38	NN-38 (0-1.0)	11/13/2013	11347-017	0.0-1.0	ND	97.9	D ND	ND	ND	97.9
	NN-38 (1.0-2.0)	11/13/2013	11347-018	1.0-2.0	ND	8.23	ND	ND	ND	8.23
	NN-38 (2.0-3.0)	12/26/2013	12711-015	2.0-3.0	ND	ND	ND	ND	ND	0

TABLE 2
ARSYNCO, INC
CARLSTADT, NJ
TRACT 2 PCB SOIL SAMPLE RESULTS SUMMARY
All values reported in mg/kg or Parts Per Million

GRID/BORING LOCATION	SAMPLE ID	DATE	Lab ID	DEPTH	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	AROCHLOR 1262	TOTAL PCBs
NN-39	NN-39 (0-1.0)	11/14/2013	11406-003	0.0-1.0	ND	2.1	ND	ND	ND	2.1
	NN-39 (1.0-2.0)	11/14/2013	11406-004	1.0-2.0	ND	0.481	ND	ND	ND	0.481
NN-40	NN-40 (0-1.0)	11/14/2013	11406-005	0.0-1.0	ND	1.71	ND	ND	ND	1.71
	NN-40 (1.0-2.0)	11/14/2013	11406-006	1.0-2.0	ND	0.567	ND	ND	ND	0.567
NN-41	NN-41 (0-1.0)	12/13/2013	12400-004	0.0-1.0	ND	0.079	0.229	ND	ND	0.308
OO-33	OO-33 (0-1.0)	12/30/2013	12780-005	0.0-1.0	ND	0.706	ND	ND	ND	0.706
OO-34	OO-34 (0-1.0)	11/13/2013	11347-005	0.0-1.0	ND	0.315	ND	ND	ND	0.315
	OO-34 (1.0-2.0)	11/13/2013	11347-006	1.0-2.0	ND	7.85	ND	ND	ND	7.85
	OO-34 (2.0-3.0)	12/26/2013	12711-017	2.0-3.0	ND	ND	ND	ND	ND	0
OO-35	OO-35 (0-1.0)	11/13/2013	11347-003	0.0-1.0	ND	0.928	ND	ND	ND	0.928
	OO-35 (1.0-2.0)	11/13/2013	11347-004	1.0-2.0	ND	0.228	ND	ND	ND	0.228
OO-36	OO-36 (0-1.0)	11/13/2013	11347-001	0.0-1.0	ND	9.94	ND	ND	ND	9.94
	OO-36 (1.0-2.0)	11/13/2013	11347-002	1.0-2.0	ND	0.374	ND	ND	ND	0.374
OO-37	OO-37 (0-1.0)	11/13/2013	11347-019	0.0-1.0	ND	1.33	ND	ND	ND	1.33
	OO-37 (1.0-2.0)	11/13/2013	11347-020	1.0-2.0	ND	ND	ND	ND	ND	0
OO-38	OO-38 (0-1.0)	11/14/2013	11406-001	0.0-1.0	ND	1.24	ND	ND	ND	1.24
	OO-38 (1.0-2.0)	11/14/2013	11406-002	1.0-2.0	ND	0.485	ND	ND	ND	0.485
OO-39	OO-39 (0-1.0)	12/12/2013	12326-010	0.0-1.0	ND	3.96	3.06	ND	ND	7.02
OO-40	OO-40 (0-1.0)	12/12/2013	12326-013	0.0-1.0	ND	ND	0.206	ND	ND	0.206
	T2-G2 (A)	9/6/1995	G-2	0-0.5'	ND	0.024	0.11	0.032	NA	0.166
	T2-G2 (B)	9/6/1995	G-2	2-2.5'	ND	ND	ND	0.034	NA	0.034
OO-41	OO-41 (0-1.0)	12/13/2013	12400-007	0.0-1.0	ND	ND	ND	ND	ND	0
PP-35	PP-35 (0-1.0)	12/30/2013	12780-007	0.0-1.0	ND	1.04	0.952	ND	ND	1.992
	PP-35 (1.0-2.0)	12/30/2013	12780-008	1.0-2.0	ND	3.42	3.3	ND	ND	6.72
	PP-35 (2.0-3.0)	12/30/2013	12780-009	2.0-3.0	0	1.08	1.02	0	0	2.1
	T2-G15(A)	12/12/1995	N Side T2-G1	0-0.5	ND	ND	0.545	ND	NA	0.545
	T2-G15(B)	12/12/1995	N Side T2-G1	2-2.5	ND	ND	0.033	ND	NA	0.033
	T2-G15(C)	6/26/1996	N Side T2-G1	0-0.5	ND	ND	0.641	ND	NA	0.641
	T2-G15(D)	6/26/1996	N Side T2-G1	2-2.5	ND	ND	ND	ND	NA	0
	T2-G15(N)	12/12/1995	N Side T2-G1	4.5-5	ND	ND	ND	ND	NA	0
PP-34	PP-34 (0-1.0)	12/30/2013	12780-010	0.0-1.0	ND	0.282	ND	ND	ND	0.282
	PP-34 (1.0-2.0)	12/30/2013	12780-011	1.0-2.0	ND	2.56	3.33	ND	ND	5.89
PP-36	PP-36 (0-1.0)	11/14/2013	11406-011	0.0-1.0	ND	0.753	ND	ND	ND	0.753
	PP-36 (1.0-2.0)	11/14/2013	11406-012	1.0-2.0	ND	ND	ND	ND	ND	0
PP-37	PP-37 (0-1.0)	11/14/2013	11406-009	0.0-1.0	ND	0.507	0.592	ND	ND	1.099
	PP-37 (1.0-2.0)	11/14/2013	11406-010	1.0-2.0	ND	0.287	ND	ND	ND	0.287
PP-38	PP-38 (0-1.0)	12/12/2013	12326-007	0.0-1.0	ND	ND	2.05	ND	ND	2.05
	PP-38 (1.0-2.0)	12/12/2013	12326-008	1.0-2.0	ND	ND	2.36	ND	ND	2.36
PP-39	PP-39 (0-1.0)	12/12/2013	12326-004	0.0-1.0	ND	1.48	1.19	ND	ND	2.67
	PP-39 (1.0-2.0)	12/12/2013	12326-005	1.0-2.0	ND	0.964	1.11	ND	ND	2.074
QQ-37	QQ-37 (0-1.0)	12/13/2013	12400-010	0.0-1.0	ND	0.112	0.195	ND	ND	0.307
QQ-38	QQ-38 (0-1.0)	12/13/2013	12400-013	0.0-1.0	ND	0.071	0.082	ND	ND	0.153
Historic Grid Areas		8/4/1995	W of T2-G5	0-0.5	ND	29	ND	ND	NA	29
		8/4/1995	W of T2-G5	0-0.5	ND	31	ND	ND	NA	31
		8/4/1995	W of T2-G7	0-0.5	ND	22	ND	ND	NA	22
ppm = Parts Per Million J = Estimated value, below reporting limit, but greater than zero D = The compound was reported from the Diluted analysis ND = Not Detected BOLD = Concentration is ≥ 50 ppm and <500 ppm BOLD = Concentration is ≥ 500 ppm										





0' - 2' Sample Concentrations

TOTAL PCBs

- ≤ 0.18 ppm
- > 0.18 ppm ≤ 2 ppm
- > 2 ppm < 5 ppm
- ≥ 5 ppm ≤ 49 ppm
- ≥ 50 ppm ≤ 499 ppm
- ≥ 500 ppm

— Approximate Centerline of Ditch

— Approximate Top of Bank

Location of Former On-Site Pond TSCA Disposal Area (And Cap)

Extent of "Consolidated Material TSCA Disposal Area" (And Cap)

≥ 50 ppm ≤ 499 ppm PCBs

≥ 500 ppm PCBs

Site Boundary

1 inch = 30 feet

0 30 60 120 180 240 Feet

Tract I	
Total Red Area:	1,947 cy
Total Orange Area:	6,335 cy
Inside TSCA Area Cap Extent	
Total Red Area:	842.7 cy
Total Orange Area:	1,313 cy
Outside TSCA Area Cap Extent	
Total Red Area:	1,104 cy
Total Orange Area:	5,022 cy

**Location of Former On-Site Pond
TSCA Disposal Area (And Cap) Area:**

15,836 sq ft

**Extent of "Consolidated Material
TSCA Disposal Area" (And Cap) Area:**

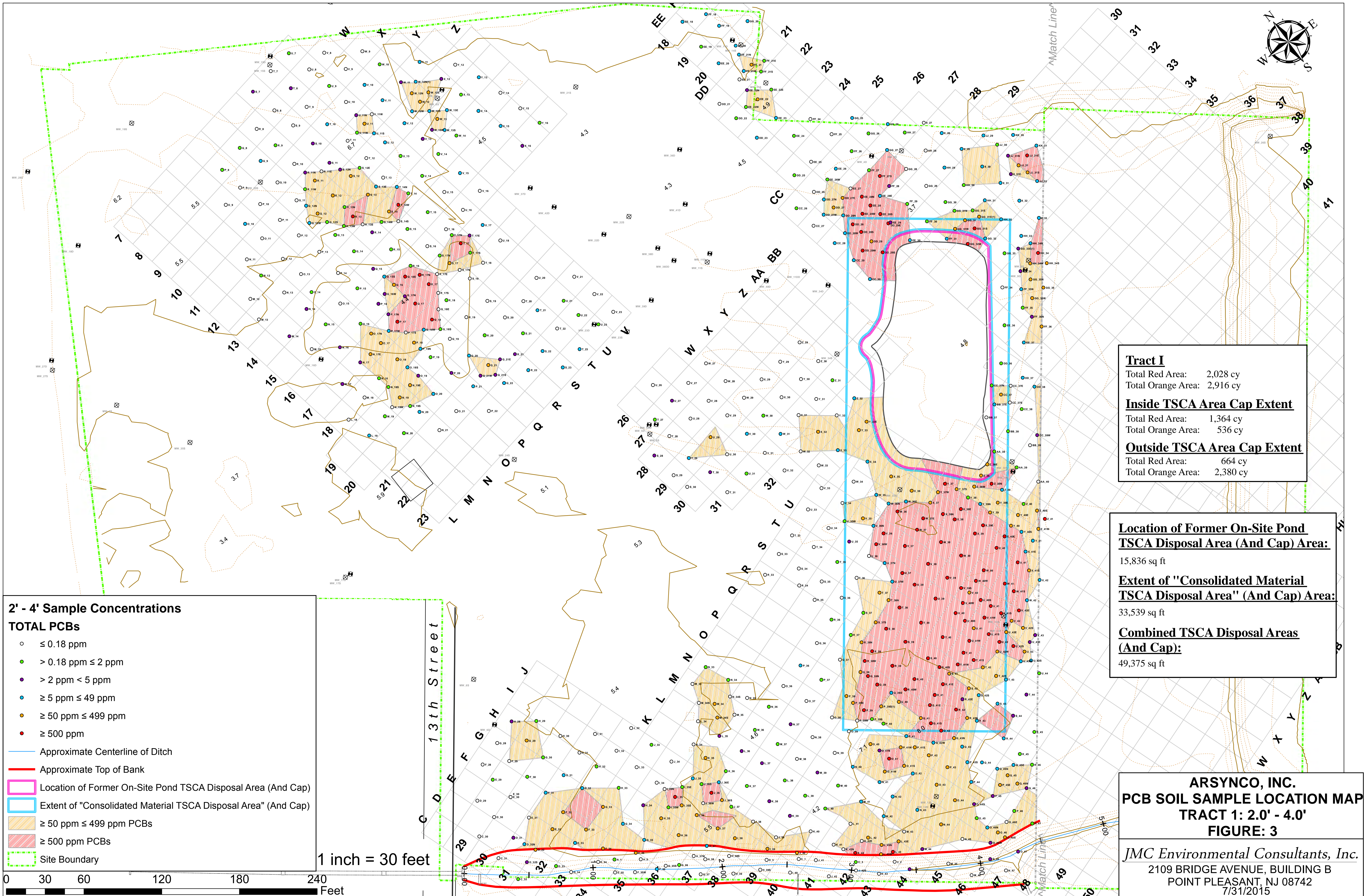
33,539 sq ft

**Combined TSCA Disposal Areas
(And Cap):**

49,375 sq ft

ARSYNCO, INC.
PCB SOIL SAMPLE LOCATION MAP
TRACT 1: 0.0' - 2.0'
FIGURE: 2

JMC Environmental Consultants, Inc.
2109 BRIDGE AVENUE, BUILDING B
POINT PLEASANT, NJ 08742
7/31/2015



2' - 4' Sample Concentrations

TOTAL PCBs

- ≤ 0.18 ppm
- > 0.18 ppm ≤ 2 ppm
- > 2 ppm < 5 ppm
- ≥ 5 ppm ≤ 49 ppm
- ≥ 50 ppm ≤ 499 ppm
- ≥ 500 ppm

— Approximate Centerline of Ditch

— Approximate Top of Bank

□ Location of Former On-Site Pond TSCA Disposal Area (And Cap)

□ Extent of "Consolidated Material TSCA Disposal Area" (And Cap)

■ ≥ 50 ppm ≤ 499 ppm PCBs

■ ≥ 500 ppm PCBs

□ Site Boundary

Tract I
Total Red Area: 2,028 cy
Total Orange Area: 2,916 cy

Inside TSCA Area Cap Extent
Total Red Area: 1,364 cy
Total Orange Area: 536 cy

Outside TSCA Area Cap Extent
Total Red Area: 664 cy
Total Orange Area: 2,380 cy

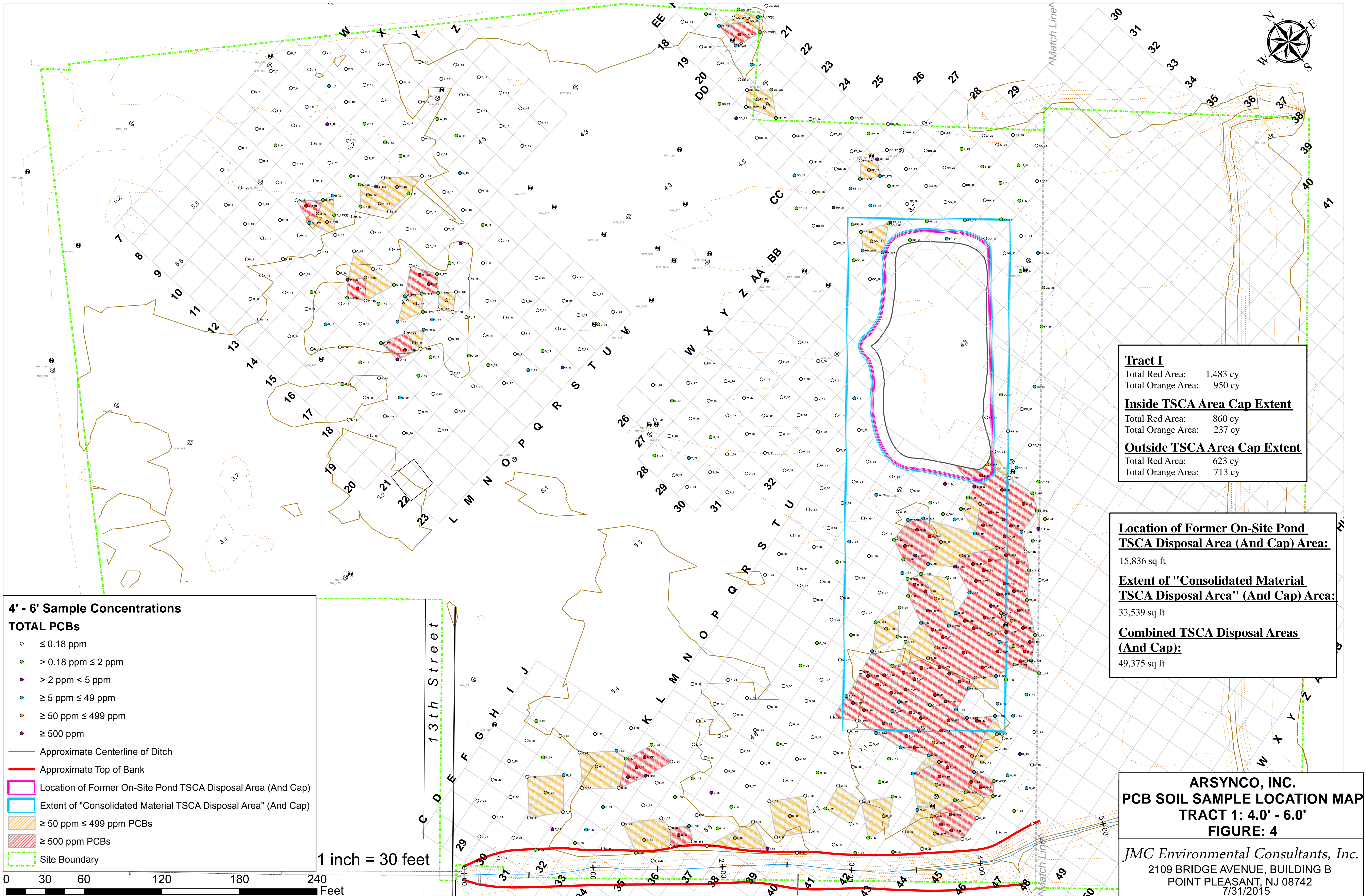
**Location of Former On-Site Pond
TSCA Disposal Area (And Cap) Area:**
15,836 sq ft

**Extent of "Consolidated Material
TSCA Disposal Area" (And Cap) Area:**
33,539 sq ft

**Combined TSCA Disposal Areas
(And Cap):**
49,375 sq ft

ARSYNCO, INC.
PCB SOIL SAMPLE LOCATION MAP
TRACT 1: 2.0' - 4.0'
FIGURE: 3

JMC Environmental Consultants, Inc.
2109 BRIDGE AVENUE, BUILDING B
POINT PLEASANT, NJ 08742
7/31/2015



4' - 6' Sample Concentrations

TOTAL PCBs

- ≤ 0.18 ppm
- > 0.18 ppm ≤ 2 ppm
- > 2 ppm < 5 ppm
- ≥ 5 ppm ≤ 49 ppm
- ≥ 50 ppm ≤ 499 ppm
- ≥ 500 ppm

- Approximate Centerline of Ditch
- Approximate Top of Bank
- Location of Former On-Site Pond TSCA Disposal Area (And Cap)
- Extent of "Consolidated Material TSCA Disposal Area" (And Cap)
- ≥ 50 ppm ≤ 499 ppm PCBs
- ≥ 500 ppm PCBs
- Site Boundary

Tract I	
Total Red Area:	1,483 cy
Total Orange Area:	950 cy
Inside TSCA Area Cap Extent	
Total Red Area:	860 cy
Total Orange Area:	237 cy
Outside TSCA Area Cap Extent	
Total Red Area:	623 cy
Total Orange Area:	713 cy

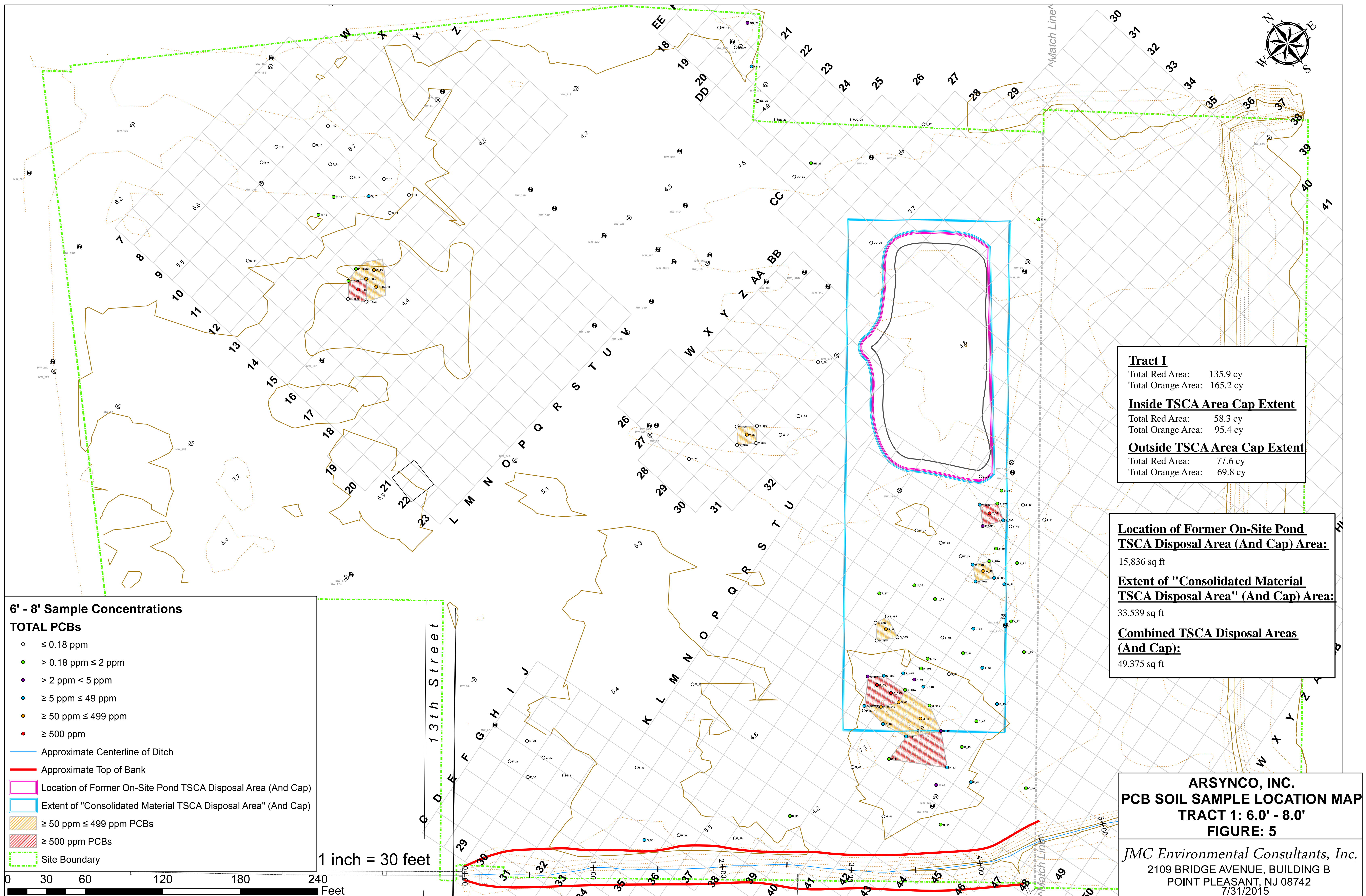
**Location of Former On-Site Pond
TSCA Disposal Area (And Cap) Area:**
15,836 sq ft

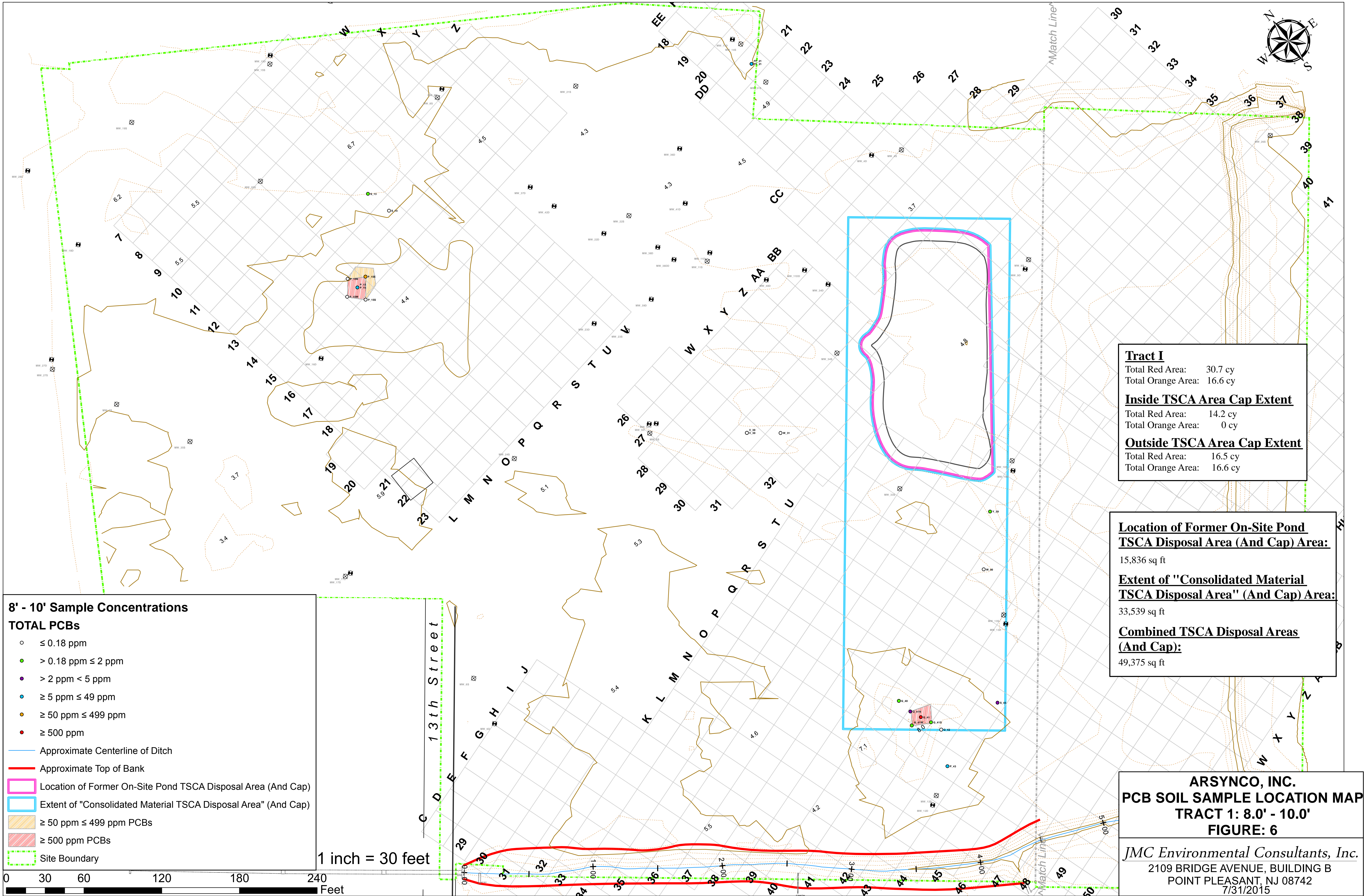
**Extent of "Consolidated Material
TSCA Disposal Area" (And Cap) Area:**
33,539 sq ft

**Combined TSCA Disposal Areas
(And Cap):**
49,375 sq ft

ARSYNCO, INC.
PCB SOIL SAMPLE LOCATION MAP
TRACT 1: 4.0' - 6.0'
FIGURE: 4

JMC Environmental Consultants, Inc.
2109 BRIDGE AVENUE, BUILDING B
POINT PLEASANT, NJ 08742
7/31/2015





8' - 10' Sample Concentrations

TOTAL PCBs

- ≤ 0.18 ppm
- > 0.18 ppm ≤ 2 ppm
- > 2 ppm < 5 ppm
- ≥ 5 ppm ≤ 49 ppm
- ≥ 50 ppm ≤ 499 ppm
- ≥ 500 ppm

- Approximate Centerline of Ditch
- Approximate Top of Bank
- Location of Former On-Site Pond TSCA Disposal Area (And Cap)
- Extent of "Consolidated Material TSCA Disposal Area" (And Cap)
- ≥ 50 ppm ≤ 499 ppm PCBs
- ≥ 500 ppm PCBs
- Site Boundary

1 inch = 30 feet

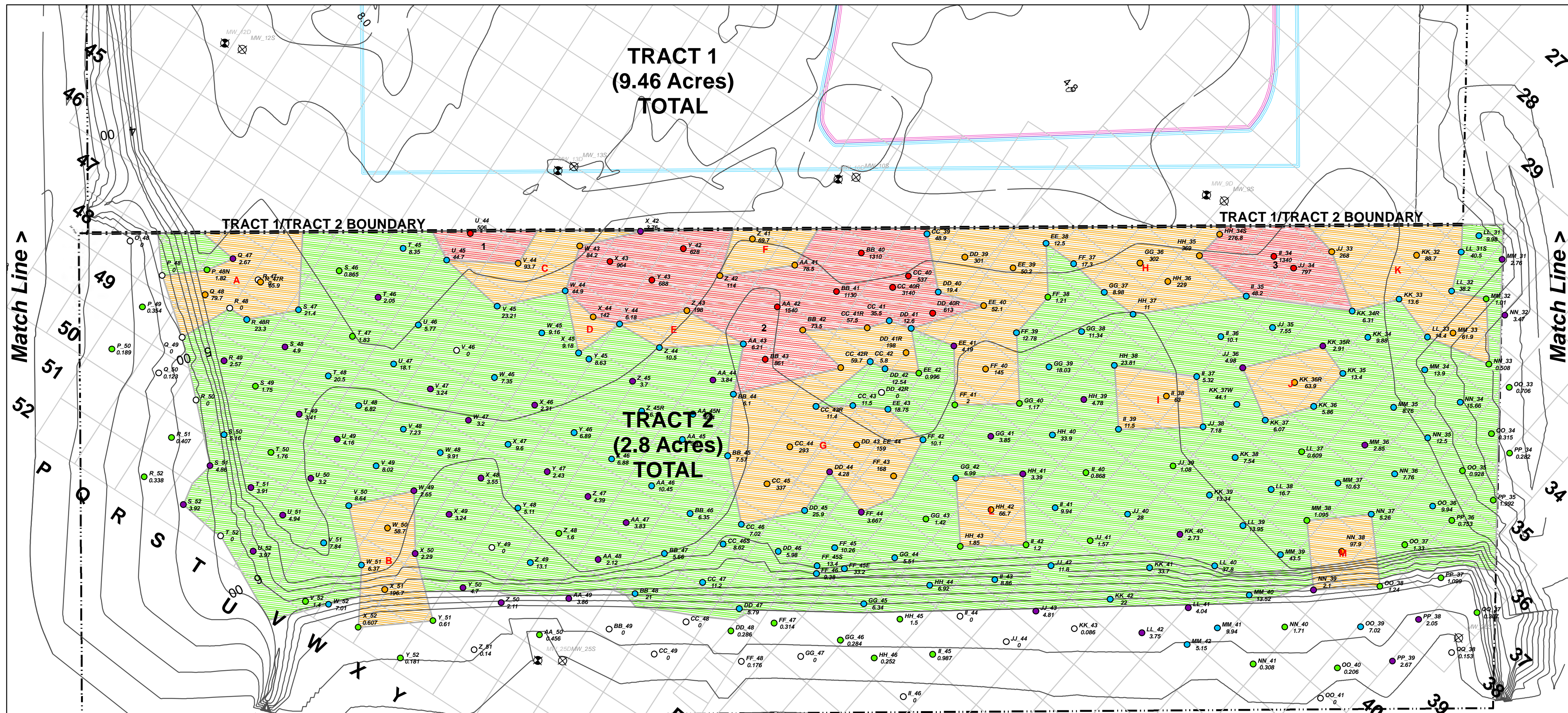
0 30 60 120 180 240 Feet

Tract I	
Total Red Area:	30.7 cy
Total Orange Area:	16.6 cy
Inside TSCA Area Cap Extent	
Total Red Area:	14.2 cy
Total Orange Area:	0 cy
Outside TSCA Area Cap Extent	
Total Red Area:	16.5 cy
Total Orange Area:	16.6 cy

Location of Former On-Site Pond TSCA Disposal Area (And Cap) Area:	
15,836 sq ft	
Extent of "Consolidated Material TSCA Disposal Area" (And Cap) Area:	
33,539 sq ft	
Combined TSCA Disposal Areas (And Cap):	
49,375 sq ft	

ARSYNCO, INC.
PCB SOIL SAMPLE LOCATION MAP
TRACT 1: 8.0' - 10.0'
FIGURE: 6

JMC Environmental Consultants, Inc.
2109 BRIDGE AVENUE, BUILDING B
POINT PLEASANT, NJ 08742
7/31/2015



0' - 1' Sample Concentrations TOTAL PCBs

- ≤ 0.18 ppm
- > 0.18 ppm < 2 ppm
- ≥ 2 ppm < 5 ppm
- ≥ 5 ppm ≤ 49 ppm
- ≥ 50 ppm < 499 ppm
- ≥ 500 ppm

- Location of Former On-Site Pond TSCA Cap Area
- Extent of "Consolidated Material TSCA Cap Area"
- < 50 ppm Excavation Area
- ≥ 50 ppm < 499 ppm Excavation Area
- ≥ 500 ppm Excavation Area
- Site Boundary

Red Areas (sq ft):

1: 490.65 sq ft
2: 16,319.9 sq ft
3: 1,558.6 sq ft
Total: 18,369.2 sq ft (680 cy)

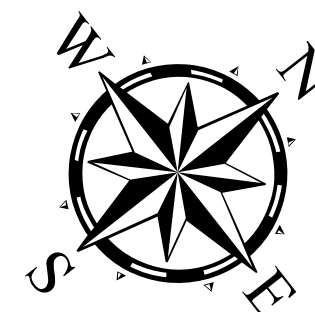
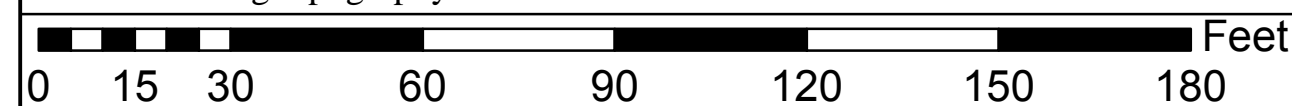
Orange Areas (sq ft):

A: 1,678.6 sq ft H: 4,839.7 sq ft
B: 1,422.4 sq ft I: 848.39 sq ft
C: 1,029.3 sq ft J: 799.89 sq ft
D: 218.09 sq ft K: 2,384.8 sq ft
E: 459.17 sq ft L: 827.12 sq ft
F: 574.41 sq ft M: 834.56 sq ft
G: 4,242.8 sq ft
Total: 20,159.2 sq ft (747 cy)

Green Area (sq ft):

62,932.4 sq ft (2,331 cy)

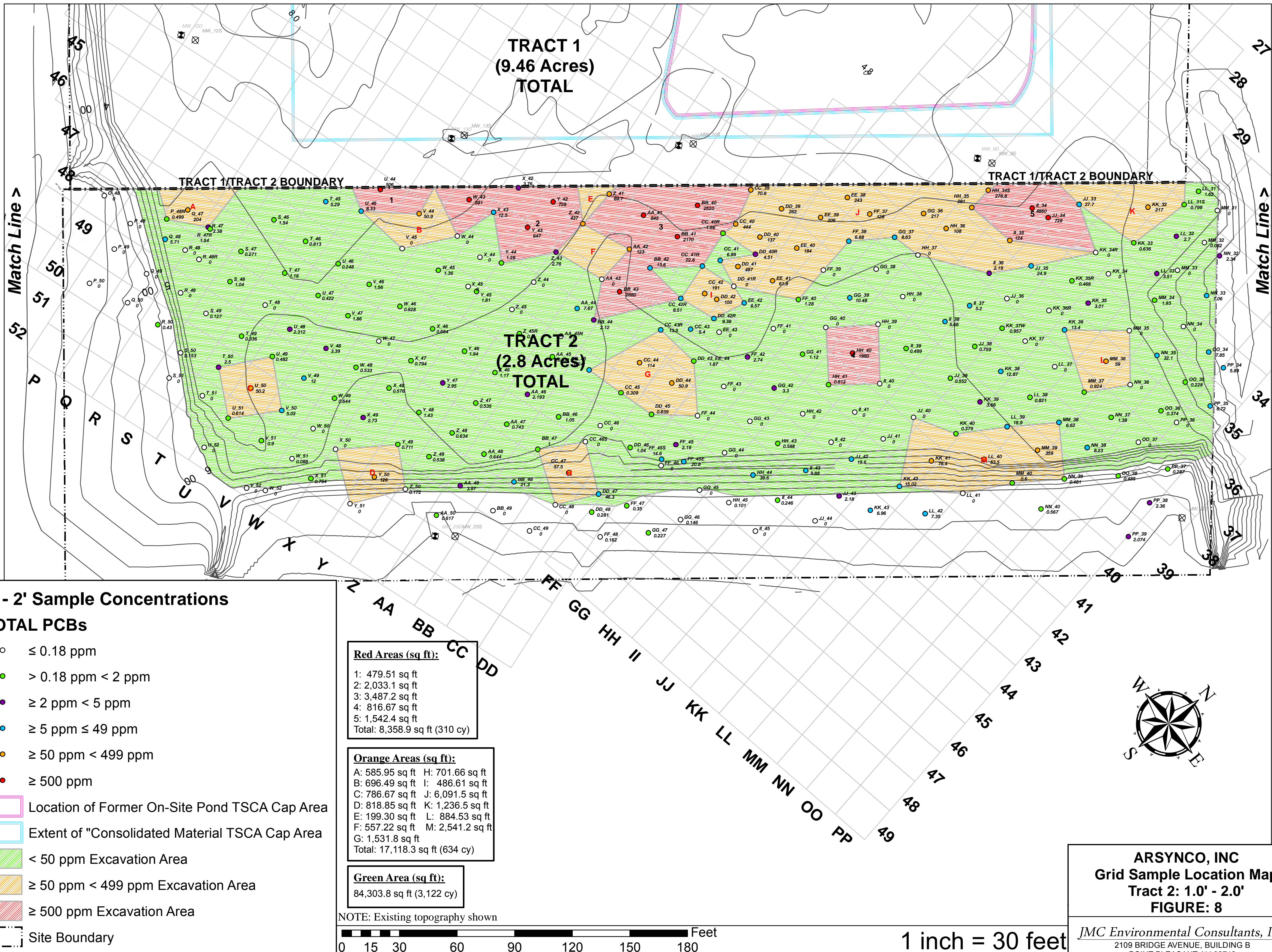
NOTE: Existing topography shown

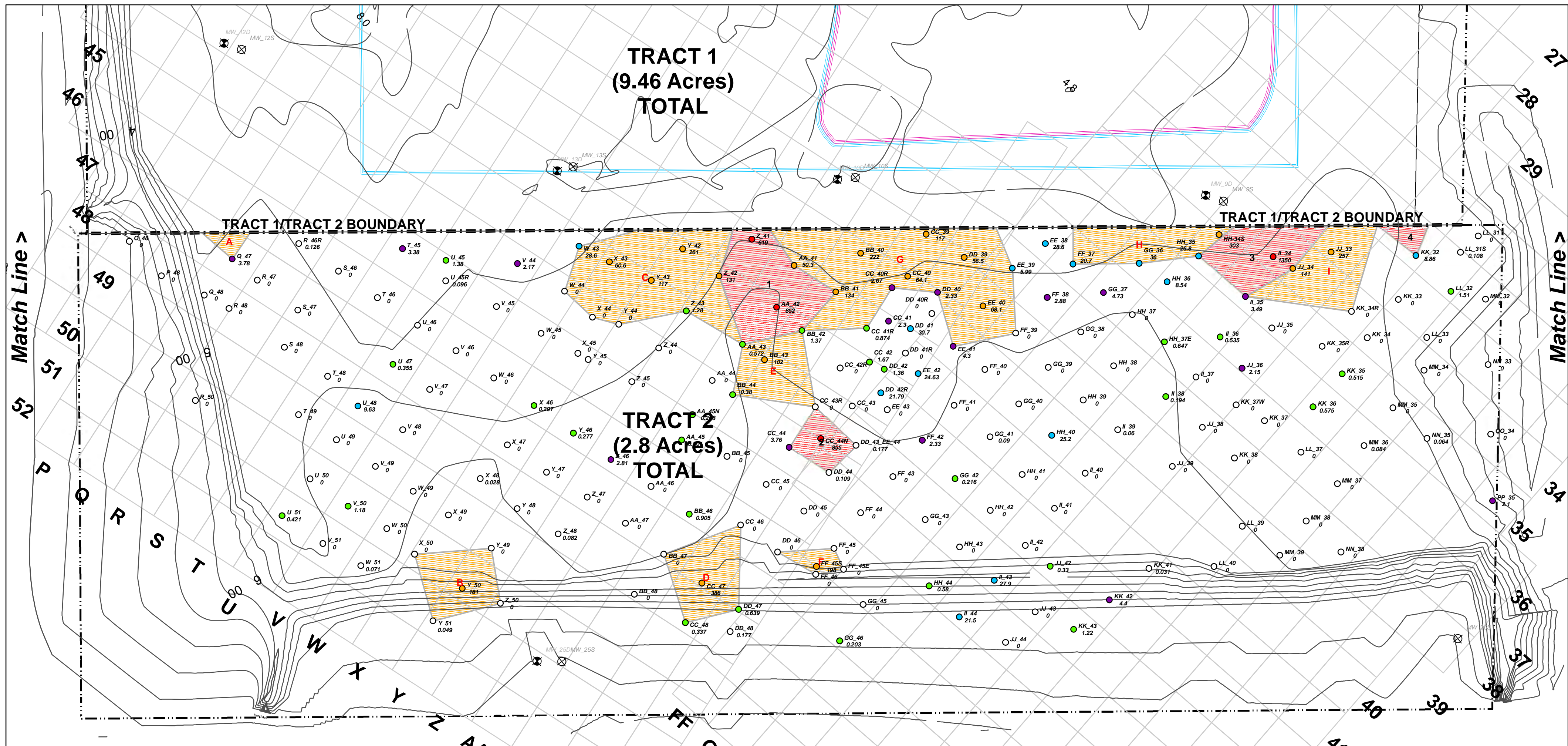


ARSYNCO, INC
Grid Sample Location Map
Tract 2: 0.0' - 1.0'
FIGURE: 7

JMC Environmental Consultants, Inc.
2109 BRIDGE AVENUE, BUILDING B
POINT PLEASANT, NJ 08742
7/31/2015

1 inch = 30 feet





2' - 3' Sample Concentrations TOTAL PCBs

- ≤ 0.18 ppm
- > 0.18 ppm < 2 ppm
- ≥ 2 ppm < 5 ppm
- ≥ 5 ppm ≤ 49 ppm
- ≥ 50 ppm < 499 ppm
- ≥ 500 ppm

- Location of Former On-Site Pond TSCA Cap Area
- Extent of "Consolidated Material TSCA Cap Area
- ≥ 50 ppm < 499 ppm Excavation Area
- ≥ 500 ppm Excavation Area
- Site Boundary

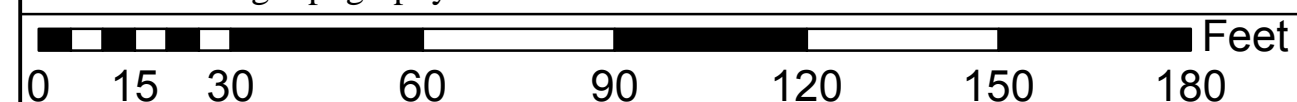
Red Areas (sq ft):

1: 1,473.50 sq ft
2: 393.30 sq ft
3: 929.95 sq ft
4: 164.09 sq ft
Total: 2,960.84 sq ft (109 cy)

Orange Areas (sq ft):

A: 116.04 sq ft F: 180.20 sq ft
B: 818.85 sq ft G: 3,373.5 sq ft
C: 2,370.1 sq ft H: 888.85 sq ft
D: 923.34 sq ft I: 1,058.5 sq ft
E: 802.17 sq ft
Total: 10,531.6 sq ft (390 cy)

NOTE: Existing topography shown

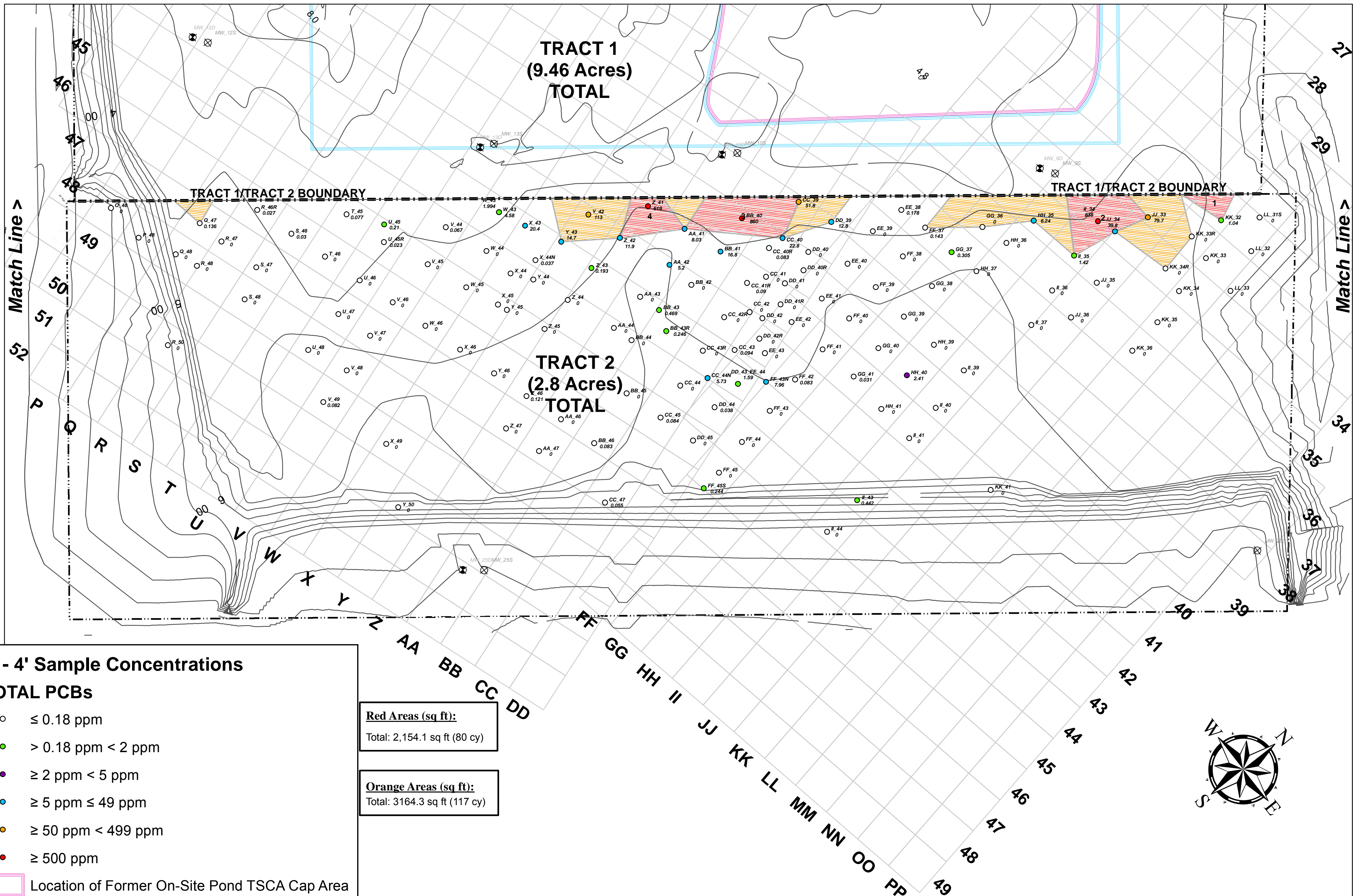


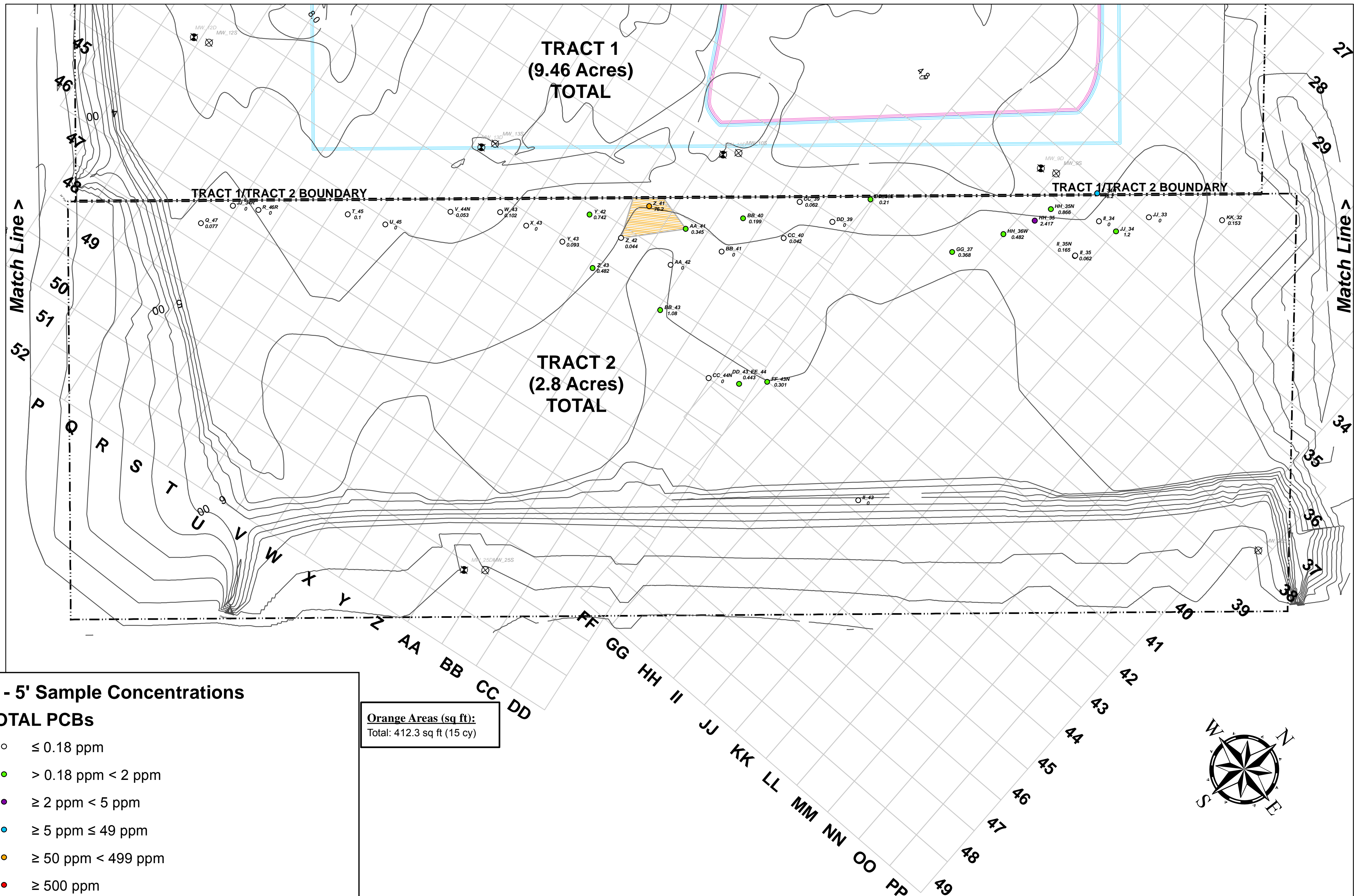
1 inch = 30 feet

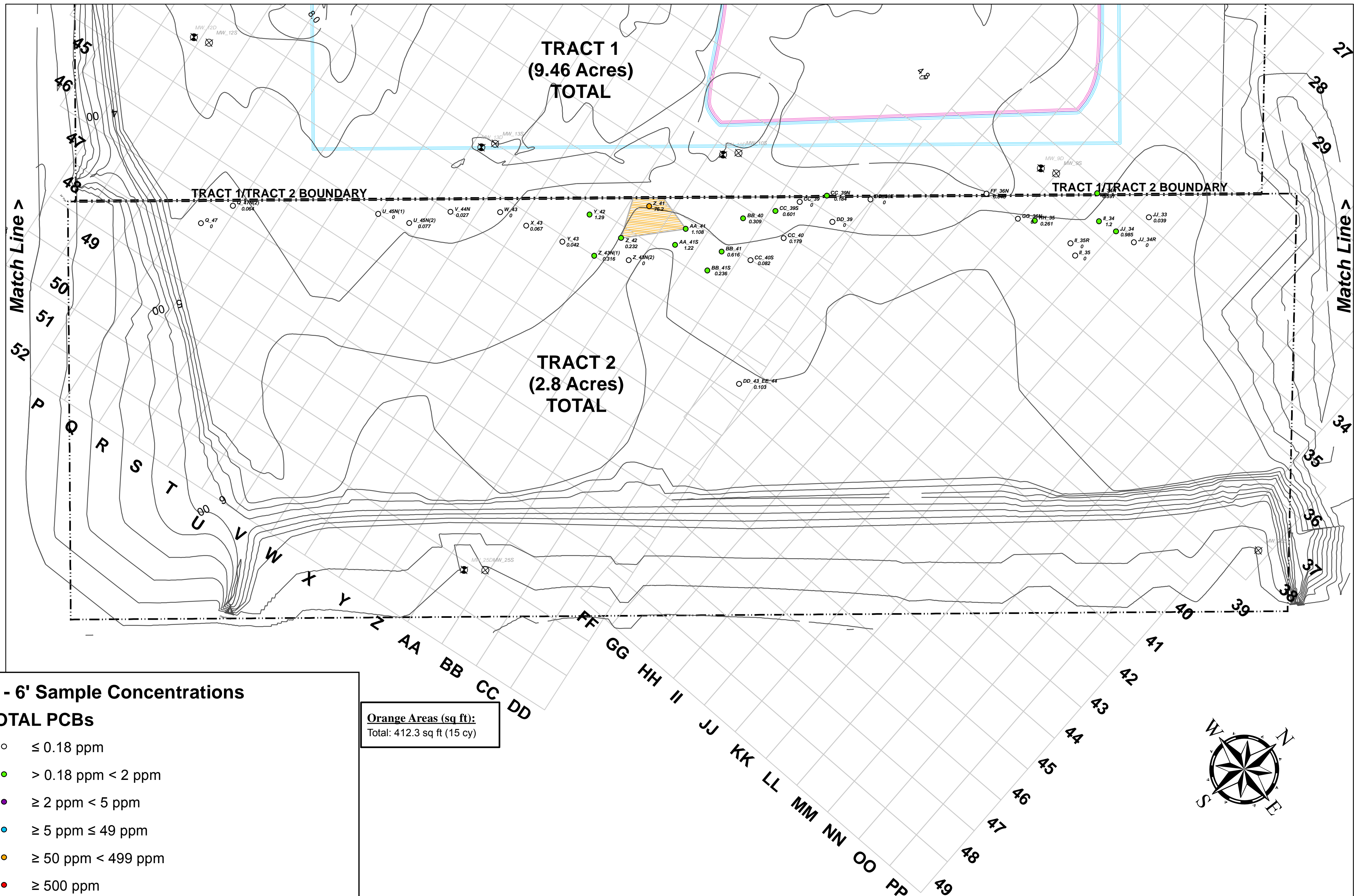


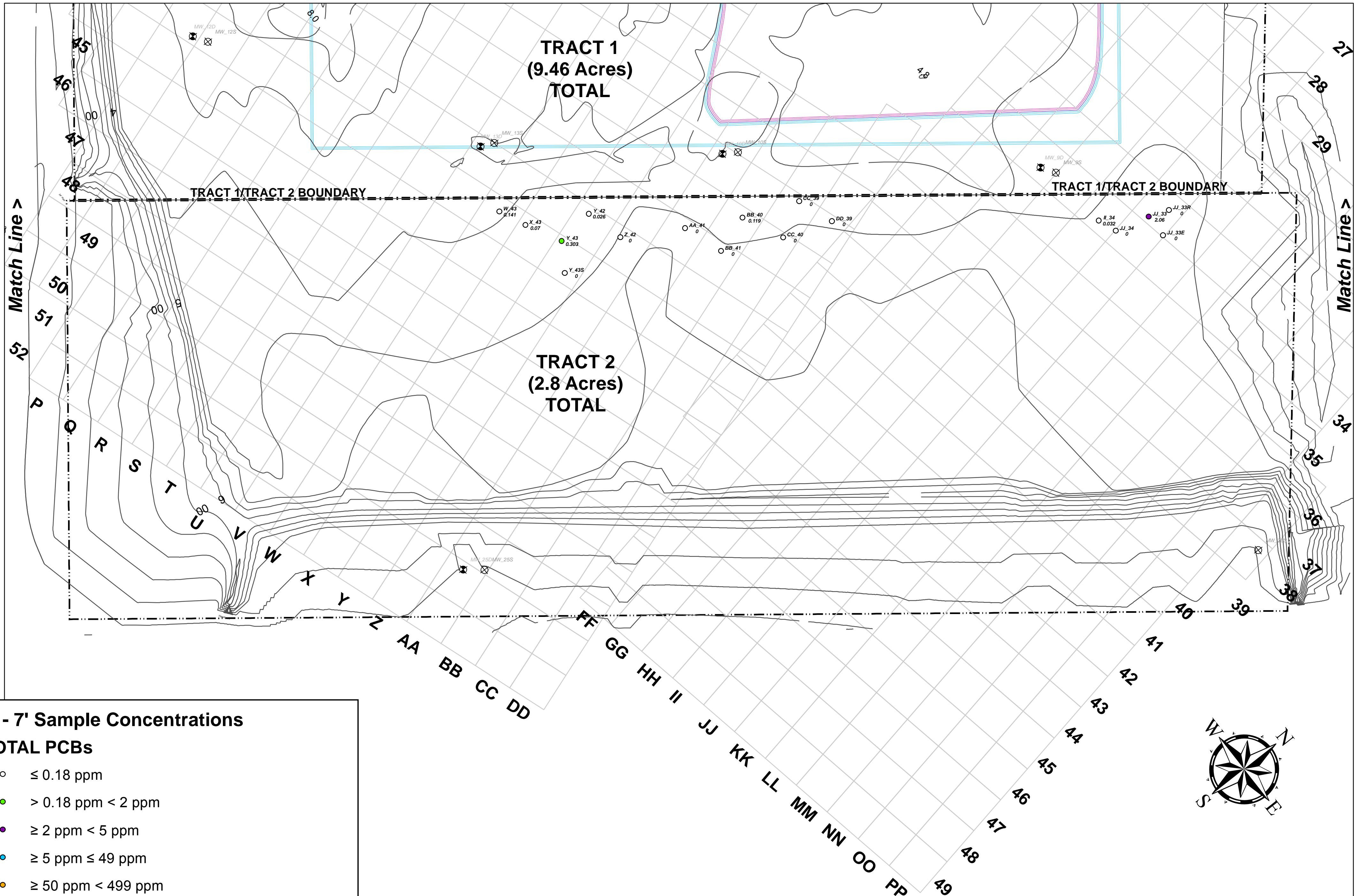
ARSYNCO, INC
Grid Sample Location Map
Tract 2: 2.0' - 3.0'
FIGURE: 9

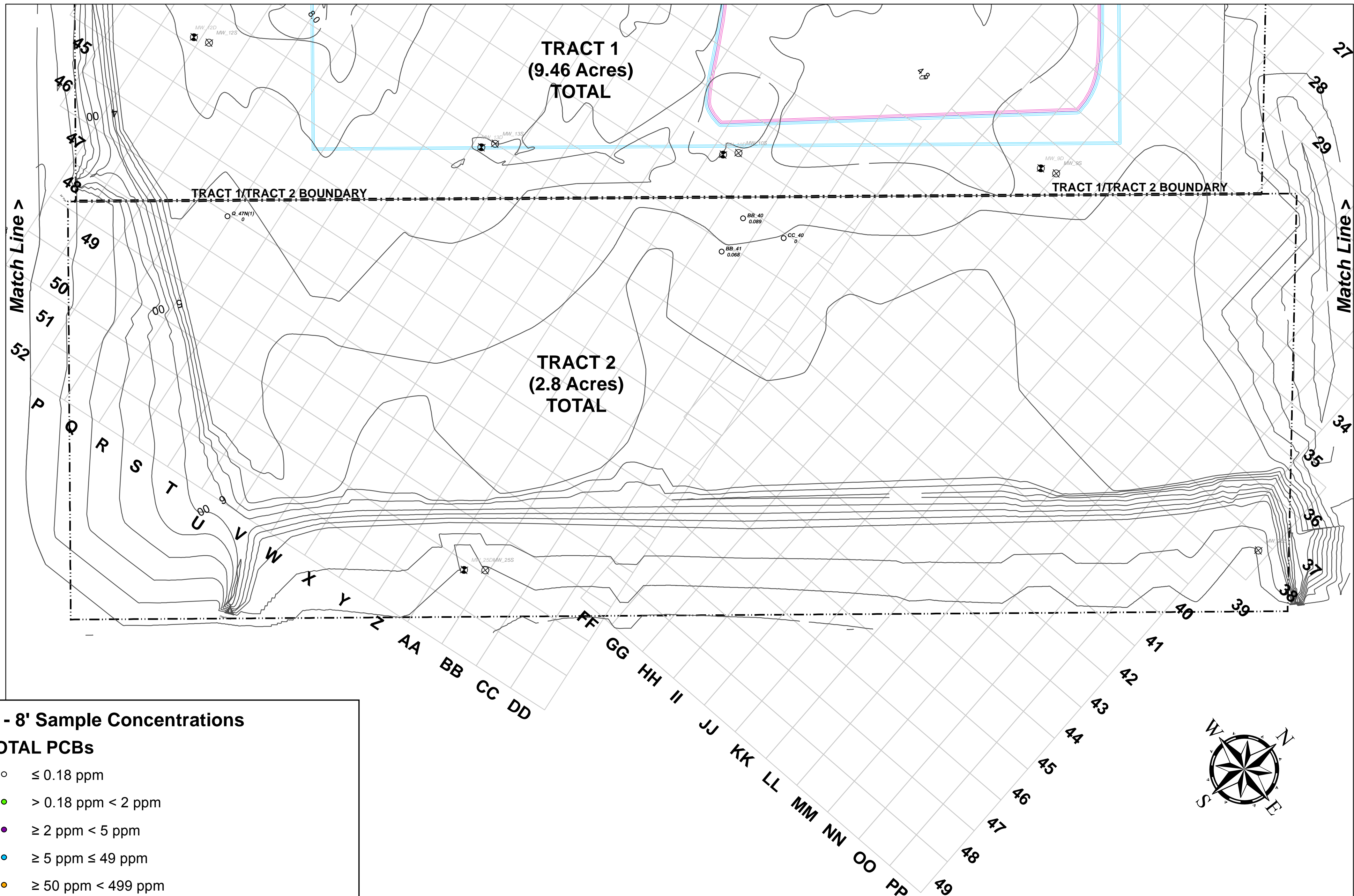
JMC Environmental Consultants, Inc.
2109 BRIDGE AVENUE, BUILDING B
POINT PLEASANT, NJ 08742
8/3/2015











7' - 8' Sample Concentrations

TOTAL PCBs

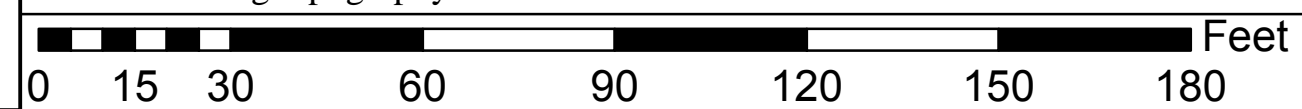
- ≤ 0.18 ppm
- > 0.18 ppm < 2 ppm
- ≥ 2 ppm < 5 ppm
- ≥ 5 ppm ≤ 49 ppm
- ≥ 50 ppm < 499 ppm
- ≥ 500 ppm

Location of Former On-Site Pond TSCA Cap Area

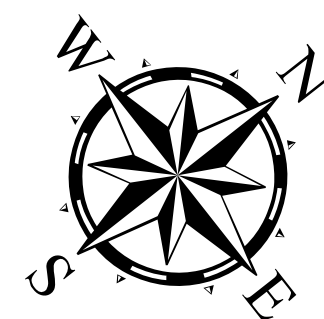
Extent of "Consolidated Material TSCA Cap Area

Site Boundary

NOTE: Existing topography shown



1 inch = 30 feet



ARSYNCO, INC
Grid Sample Location Map
Tract 2: 7.0' - 8.0'
FIGURE: 14

JMC Environmental Consultants, Inc.
 2109 BRIDGE AVENUE, BUILDING B
 POINT PLEASANT, NJ 08742
 7/31/2015

APPENDIX A - LABORATORY ANALYTICAL REPORTS (Tract 1 PCB Grid Samples)

APPENDIX B - LABORATORY ANALYTICAL REPORTS (Tract 2 PCB Grid Samples)

APPENDIX C - BORING LOGS (Tract 1 PCB Grid Borings)

APPENDIX D - BORING LOGS (Tract 2 PCB Grid Borings)

**PROVIDED AS ELECTRONIC VERSIONS
ON ATTACHED CD-ROM**

APPENDIX E

HEALTH & SAFETY PLAN

SITE-SPECIFIC HEALTH AND SAFETY PLAN

**ARSYNCO, INC. PROPERTY
511 13th Street
Carlstadt Borough, Bergen County, NJ**

Prepared by:

**JMC ENVIRONMENTAL CONSULTANTS, INC.
2109 Bridge Avenue Bldg. B
Point Pleasant, NJ 08742**

July 2015

Project Objective: Accident Free Execution

Reviewed by: _____ Date: _____

JMC Environmental Consultants, Inc.

Reviewed by: _____ Date: _____

Arsynco, Inc.

Prepared by: _____ Date: _____

JMC Environmental Consultants, Inc.

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ATTACHMENTS

Attachment A - H&S Forms

Attachment B - Material Safety Data Sheets

Attachment C - Excavation Safety SOP

Attachment D - Heat Stress Management SOP

1.0 INTRODUCTION

1.1 Purpose, Scope and Applicability of the Site Specific Health and Safety Plan

The purpose of this site specific Health and Safety Plan (HASP) is to identify anticipated hazards and the control measures to be implemented at the Arsynco, Inc. Property Project in the Borough of Carlstadt, Bergen County, New Jersey during site remediation activities associated with the TSCA-regulated PCB cleanup. The procedures presented in this HASP are based on the best available information at the time of the plan's preparation, and are intended only for the activities described in this plan.

Applicability of this HASP extends to all JMC Environmental Consultants, Inc. (JMC) employees. This plan must be reviewed by site personnel prior to entering the exclusion zone or contamination reduction zone (decontamination zone). Personnel on site shall be informed of the site emergency response procedures and any potential fire, explosion, health, or safety hazards of the project tasks/operations. This HASP summarizes those hazards in Section 4.0 and defines hazard control measures planned for the site.

Visitors entering the contamination reduction zone and exclusion zone at the site will be required to read and verify compliance with the provisions of this HASP. In addition, visitors will be expected to comply with relevant OSHA requirements. Visitors will be expected to provide their own personal protective equipment. In the event that a visitor does not adhere to the provisions of this HASP, he/she will be requested to leave the work area.

The requirements and protocols cited in this plan were developed in consideration of current safety standards as defined by OSHA/NIOSH, health effects and standards for known contaminants, and procedures designed to account for the potential for exposure to unknown substances. Specifically, the following reference sources were consulted in developing this plan:

- OSHA 29 CFR 1910.120;
- EPA Standard Operating Safety Guides;
- NIOSH/OSHA/USCG/EPA Occupational Health and Safety Guidelines;
- NIOSH Pocket Guide to Chemical Hazards;
- USEPA National Oil and Hazardous Waste Contingency Plan

1.2 Modifications to the Plan

Revisions to this plan may be made based on conditions encountered during site activities. All revisions to this plan shall be documented on a change form and approved by all the parties that prepared/ approved the original version. A copy of this form is included in Attachment A.

2.0 KEY PERSONNEL AND RESPONSIBILITIES

2.1 Key Personnel

The following personnel have principal responsibility for the implementation and maintenance of health and safety measures during site remediation activities.

Job Function	Name	Phone	Alternate Phone
JMC Response Mgr	Thomas Adams	732-295-2144	732-977-6545
JMC Safety Officer	Thomas Adams	732-295-2144	732-977-6545
JMC H&S Director	James Clabby	732-295-2144	908-963-3965

2.2 Responsibilities

2.2.1 Response Manager

The **Response Manager** is responsible for health and safety "performance" in the field. The Response Manager can temporarily halt work at any time if, in his/her opinion, it is necessary to protect the health and well being of site workers or the general public. Specific responsibilities of the Response Manager include:

- Directing site activities in accordance with the HASP;
- Being aware of and complying with applicable federal, state, and local occupational health and safety regulatory requirements;
- Ensuring that resources called for in the HASP and Work Plan/Operations Plan are on site and operational;
- Verifying that all permits, supporting documentation and clearances for a given task (e.g., utility surveys, health and safety plan, confined space entry permits) are in place;
- Informing the appropriate site management and safety personnel of the activities to be performed each day;
- Providing technical advice during routine operations and emergencies;
- Handling field emergency response situations that may arise;
- Correcting unsafe acts and conditions; and
- Participating in pre-job and daily safety meetings.

2.2.2 Site Health and Safety Officer (SHSO) (RM is Serving as SHSO)

The **Site Health and Safety Officer (SHSO)** has responsibility for ensuring that provisions of each HASP are implemented in the field by JMC employees and subcontractor employees. The SHSO must be trained to implement the requirements in the site specific HASP, including the correct use of monitoring instruments, health and safety criteria for the site, documentation of monitoring results, and actions to take if site conditions change.

The designated SHSO shall continuously evaluate the adequacy of prescribed health and safety procedures and levels of protection against the actual conditions encountered in the field. If an obvious discrepancy exists between the realized hazard(s) and the level of personal protective equipment (either too much or too little), the SHSO shall immediately bring the situation to the attention of the JMC Health and Safety Director (HSD). With the concurrence of the HSD and the Response Manager, the SHSO shall take appropriate corrective action. The SHSO has final on-site authority for matters specifically related to worker health and safety, and emergency situations that require immediate action, including the authority to temporarily cease operations. Additional responsibilities of the SHSO include:

- monitoring site activities for unsafe acts and conditions and initiating their correction;
- monitoring project and site activities for conformance to the site specific HASP;
- overseeing confined space entries and ensuring that confined space entries are done in accordance with the requirements found in the JMC Standard Operating Procedures (SOPs) for confined space entry;
- performing on-site air monitoring and personal sampling as specified in the site specific HASP;
- calibration of instruments;
- maintenance of health and safety equipment and supplies;
- ensuring that work-related injuries and illnesses are properly treated and investigated;
- conducting safety briefings and daily safety meetings;
- maintaining documentation in support of the HASP; and
- participating in a pre-job safety briefing with project personnel to discuss anticipated hazards and their control measures.

2.2.3 JMC Health and Safety Director (HSD)

The **JMC Health and Safety Director (HSD)** shall be responsible for implementing an effective hazardous waste operations health and safety program, and shall have the requisite authority to implement the procedures set forth in the JMC HASP, including the authority to temporarily halt work on a project if necessary to protect employees' safety or health. The HSD may delegate certain duties to the SHSO or to other JMC health and safety personnel, but shall be ultimately responsible for the following:

- overseeing the employee medical surveillance program and interacting with examining physicians as required;
- investigating site histories, performing site characterizations, and assessing site/task specific hazards;
- developing or assessing task specific monitoring procedures, action levels, levels of personal protective equipment (PPE), and health and safety requirements for the site and the HASP;
- performing periodic site inspections/audits;
- following to resolution deficiencies noted during site inspections; and,
- resolve "level of care" conflicts that may arise during conduct of the project.

2.2.4 Foreman, Operators, and Technicians

All site personnel share responsibilities for health and safety. Specific duties include:

- conducting work in accordance with the HASP;
- participating in daily safety meetings/planning; and,
- prompt reporting of incidents and potential health and safety-related problems.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Description

The Arsynco property consists of approximately 12.3 acres of land located at the western boundary of the Hackensack Meadowlands area. The Arsynco property is divided into two (2) adjacent tracts of land. The main portion of the site, known as Tract 1, consists of approximately 9.5 acres of land, and formerly contained all production operations. Tract 2 consists of approximately 2.8 acres of undeveloped marshland. No former operations were conducted in the Tract 2 portion of the site. All buildings on the site were demolished following cessation of operations in 1993.

3.2 Project Description

Activities will include removal of metals contaminated soil and backfilling.

- Obtain Permits and Approvals
- Conduct site clearing activities
- Mobilization

- Construct soil erosion, sedimentation, and storm water control features
- Erect hot zone perimeter (high visibility fence)
- Construct vehicle decontamination area
- Excavation and disposal of contaminated soils with PCBs ≥ 500 ppm.
- Excavation and consolidation of PCB-contaminated soils with PCBs ≥ 50 & < 500 ppm.
- Disposal of contaminated concrete debris with PCBs ≥ 500 ppm.
- Dust control
- Post excavation soil sampling for confirmation of meeting soil clean-up criteria.
- Backfilling - whether with consolidation soils, or clean material from an off-site source
- Decontaminate equipment
- Demobilize

4.0 HAZARD ANALYSIS

The evaluation of hazards is based upon the knowledge of site background information presented in Section 3.1, and anticipated risks posed by the specific tasks/operations to be performed. Section 4.1 presents a general description of site hazards. Section 4.2 describes the specific hazards associated with each task/activity, and identifies the hazard control measures to be implemented during completion of these tasks. This site in particular has the potential for extreme hazards.

4.1 General Hazard Analysis

Potential Site Hazards and Risk of Exposure:

M	Chemical	H	Trips, slips, falls
M	Biological	N/A	Building Collapse
L	Fire/ explosion	H	Heavy equipment/ vehicular traffic
M	Heat/ Cold Stress	L	Overhead hazards
NA	Asbestos	L	Electrical hazards
H	Machinery/ mechanical equipment	NA	Confined space entry
N/A	Cutting and welding	M	Unstable/uneven terrain
L	Underground utilities	M	Excavation Cave-in
M	Noise	H	Strain/ overexertion

Risk of Exposure Estimates: L – Low M – Medium H – High Unk – Unknown NA – Not Applicable

4.1.1 Physical Hazards

Noise – open cab heavy equipment (no cab glass) produces noise exposures in excess of the permissible exposure limit (90dBA). Operators of these pieces of equipment must wear hearing protection (plugs). Hydraulic excavators do not produce sound levels in excess of 85 dBA. Operators of compressors, pumps, and generators will also wear hearing protection when working within 15 ft. of the equipment for extended periods.

Motor vehicles – obey local traffic laws, use qualified drivers in insured vehicles. Seatbelt use is mandatory. Crew will wear traffic vests when working within 15 feet of public roads. Work areas adjacent to roadways will be protected from traffic and the traveling public will be protected with high visibility traffic control devices (signage, flaggers, barrels and or a-frame barricades with retro-reflective tape).

Heavy Equipment - Minimize the number of ground personnel working around heavy equipment. Workers shall maintain eye contact with operators. Only experienced equipment operators will be permitted to operate heavy equipment. Ground crew stays out of pinch points created by heavy equipment. All machines must be supplied with a fire extinguisher and a back-up horn. Equipment will be inspected each morning, prior to use, to ensure safety equipment and devices (e.g., back-up alarms, brakes, etc.) are fully operational. Operators will use a three point machine mount and dismount facing the machine. Jumping from machines is prohibited. Operators will wear seat belts in machines with Rollover Protection. Operators will make no lifts over ground personnel.

Dump Trucks

- Operators mount and dismount facing the machine using three points of contact
- Do not jump off machines
- Operators wear seatbelts
- Do not attempt to jump from the truck if it begins to rollover
- Maintain fire extinguishers in all trucks
- Maintain cab glass, rearview mirrors, signal lights and back-up alarms
- Keep the cab clear of mud and trash that could effect your ability to operate foot controls
- Stay away from the edges of uncompacted roads and soil piles
- Do not allow riders except buckled in the passenger seat
- Remember that when loaded the truck's center of gravity is higher
- Do not travel with the bed in the up position
- Watch out for overhead powerlines
- Travel at safe speeds
- Watch for ground crew about the machine

- Stop the machine if you lose track of a ground crew member's location
- Load the truck over the tailgate or side. Do not load over the cab
- If it is necessary to get under the bed when it is in the up position use the bed lockout mechanism.

Electrical Hazards – Safe distances from overhead powerlines must be maintained in accordance with the table below. A ground crew member must be assigned as a spotter to any piece of heavy equipment which is working close enough to an overhead line so that a part of the machine may infringe on the safe distance listed below.

System Voltage	Minimum Required Clearance
0 -50 kV	10 ft.
51 - 100 kV	12 ft.
101- 200 kV	15 ft.
201 - 300 kV	20 ft.
301- 500 kV	25 ft.
501 - 750 kV	35 ft.
751 - 1000 kV	45 ft.

Utility installed line insulators may be used to decrease the safe distances to the insulators rated protection distance. For crossings underneath powerlines, crossings will be posted with overhead powerline warning signage and dump trucks will be stopped to lower beds before crossing.

Ground fault - Ground fault protection devices (GFCI) will be provided for electric power tools and extension cords. Electrical conductors will be demolished under the protection of lockout/tagout. Voltage detectors may be used to verify conductors are not energized.

Underground Utility Protection – Properties to be excavated will be marked out by utility locator prior to excavation. Marking stand-off distances will be maintained. Work within stand-off distances will be performed using hand tools. Notify appropriate utility if a utility is damaged immediately.

Eye Protection - Eye protection is mandatory in work zone areas of the project site at all times.

Head Protection - JMC site safety rules require that hard hats be worn at all times except when in the cab of heavy equipment with Rollover Protection, in a job site trailer or in a vehicle. JMC will supply personnel with hard hats and enforce the wearing of same--NO EXCEPTIONS.

Falling Vegetation – Clearing operations expose operators and ground crew to falling tree limbs and trees. Heavy equipment used for clearing will be equipped with Fall On Protection (FOPS) and ground crew will be kept out of areas being cleared.

Excavation Cave-In – A competent person will be on site during excavation work requiring entry into excavations greater than 4 feet in depth. The competent person will perform excavation inspections. Excavations requiring personnel entry will be stabilized when depths are ≥ 5 ft. (e.g.- slide rail system, trench box, etc.). Excavations greater than 4 feet deep will be evaluated for confined space entry hazards prior to personnel entry. Confined Space Entries will be performed in compliance with the JMC Confined Space Entry Standard Operating Procedure located in the attachments to this HASP. Excavation work will be performed in accordance with the JMC Excavation Safety Standard Operating Procedure located in the attachments to this HASP.

When the stability of a structure adjacent to an excavation is endangered, shoring, bracing, or underpinning will be used to ensure the stability of the structure for the protection of employees. Excavation below the level of the base or footing of a structure which may pose a hazard to employees is permitted only when:

- a support system is provided to ensure the safety of employees;
- a PE has approved the determination that the structure is far enough away from the excavation so as to be unaffected; or,
- a PE approves the determination that the excavation work does not pose a hazard to employees.

Soils situated deeper than of 4-feet below grade with PCB concentrations above 50 ppm were indentified in an area measuring approximately 250 ft² in the southeast part of Tract 1. Based on the current data, this will be the only area in which excavation depths will exceed 4-feet.

Confined Space Entry – Entry into the excavations planned for this site (including excavations \geq 4ft deep) will be evaluated for Permit Required Confined Space Hazards. When necessary entries will be made using the Confined Space Entry SOP.

High or Elevated Work - Work near an unprotected side or edge (no handrail) which would allow a fall to a lower level of six feet or more is prohibited without the use of fall protection (e.g., anchorage points, body harnesses, taglines with deceleration devices and lifelines). Fall protection equipment will provide continuous protection.

Matches and Flame-producing Devices - Smoking is limited to designated areas after hand and face washing.

Pinch-Point Hazards - Pinch-point injuries can occur when materials and equipment are moved around the site during mobilization, demobilization, and project operations. Pinch-point injuries can be avoided by following the correct procedures for moving equipment and materials and by using protective equipment such as heavy gloves and steel-toed boots. Ground crew members must keep out of pinch points produced by heavy equipment.

Hand Punctures / Lacerations – Wear leather gloves when handling wood, wire, etc.

4.1.2 Biological Hazards

Biological Hazards are expected to pose potential hazards. See Section 12.0 of this HASP for details.

4.1.3 Chemical Hazards

The presence of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs and metals have been verified with soil sampling.

Concentrations for contaminants of concern in soil include:

VOCs:

Benzene up to 110 mg/kg
Toluene up to 8,700 mg/kg
Ethylbenzene up to 2,800 mg/kg
Total Xylenes up to 24,000 mg/kg
Chlorobenzene up to 250 mg/kg
4-methyl-2-Pentanone up to 250 mg/kg
Chloroform up to 50 mg/kg
Tetrachloroethene (PCE) up to 14 mg/kg
Trichloroethene (TCE) up to 100 mg/kg
Methylene Chloride up to 740 mg/kg
Cis 1,2 Dichloroethene (cis-1,2-DCE) up to 19 mg/kg

SVOCs:

Benzo(a)anthracene up to 22 mg/kg
Benzo(b)fluoranthene up to 17 mg/kg
Benzo(a)pyrene up to 14 mg/kg
Benzo(k)fluoranthene up to 6.6 mg/kg

Indeno (1,2,3)pyrene up to 9 mg/kg
Chrysene up to 20 mg/kg
Dibenz(a,h)anthracene up to 3.1 mg/kg
Bis(2-ethylhexyl)phthalate up to 660 mg/kg
Di-n-butylphthalate up to 12,000 mg/kg
Diethylphthalate 3,800 mg/kg
Dimethylphthalate up to 260 mg/kg
Naphthalene up to 1,300 mg/kg
2,6-Dinitrotoluene up to 3.9 mg/kg
2,4-Dinitrotoluene up to 11 mg/kg

Phenolics up to 1,900 mg/kg

PCBs up to 6,200 mg/kg

Metals:

Antimony up to 364 mg/kg
Arsenic up to 155 mg/kg
Cadmium up to 237 mg/kg
Copper up to 4,860 mg/kg
Lead up to 27,000 mg/kg
Mercury up to 987 mg/kg
Nickel up to 704 mg/kg
Thallium up to 8.2 mg/kg
Zinc up to 4,420 mg/kg

SUMMARY OF HEALTH HAZARDS FOR KNOWN SITE CONTAMINANTS

SUBSTANCE	EXPOSURE LIMIT (PEL)	IDLH LEVEL	HEALTH EFFECTS	ROUTE OF ENTRY	FIRST AID By Route of Exposure
VOCs					
Benzene	1 ppm TWA	500 ppm	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression;	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
Toluene	200 ppm TWA	500 ppm	Irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Ethylbenzene	100 ppm TWA	800 ppm	Irritation eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Inhalation, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
Total Xylenes	100 ppm TWA	900 ppm	Irritation eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; anorexia, nausea, vomiting, abdominal pain; dermatitis	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
Chlorobenzene	75 ppm TWA	1,000 ppm	Irritation eyes, skin, nose; drowsiness, incoordination; central nervous system depression; in animals: liver, lung, kidney injury	Inhalation, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
4-methyl-2-Pentanone	100 ppm TWA	500 ppm	Irritation eyes, skin, mucous membrane; headache, narcosis, coma; dermatitis; in animals: liver, kidney damage	Inhalation, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Chloroform	50 ppm TWA	500 ppm	Irritation eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness, exhaustion); anesthesia; enlarged liver.	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
PCE	100 ppm TWA	150 ppm	Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage.	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
TCE	100 ppm TWA	1,000 ppm	Irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury.	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Methylene Chloride	25 ppm TWA	2,300 ppm	Irritation eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numbness, tingle limbs; nausea;	inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
cis 1,2 DCE	200 ppm TWA	1,000 ppm	Irritation eyes, respiratory system; central nervous system depression	inhalation, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
SVOCs					
Benzo(a)anthracene	N/A	80 mg/m3	Dermatitis, bronchitis	Inhalation, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
Benzo(b)fluoranthene	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	N/A	80 mg/m3	Dermatitis, bronchitis	Inhalation, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
Benzo(k)fluoranthene	N/A	N/A	N/A	N/A	N/A
Indeno (1,2,3)pyrene	N/A	N/A	N/A	N/A	N/A
Chrysene	N/A	80 mg/m3	Dermatitis, bronchitis	Inhalation, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Dibenz(a,h)anthracene	N/A	N/A	N/A	N/A	N/A
Bis(2-ethylhexyl)phthalate	N/A	N/A	N/A	N/A	N/A
Di-n-butylphthalate	5 ppm TWA	4,000 mg/m3	Irritation eyes, upper respiratory system, stomach	Inhalation, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Wash regularly Breathing: Respiratory support Swallow: Medical attention immediately
Diethylphthalate	N/A	N/A	N/A	N/A	N/A
Dimethylphthalate	5 mg/m3	2,000 mg/m3	Irritation eyes, upper respiratory system; stomach pain	Inhalation, ingestion, skin and/or eye contact	Eye: Irrigate promptly Skin: Wash regularly Breathing: Respiratory support Swallow: Medical attention immediately
Naphthalene	10 ppm	250 ppm	Irritation eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; jaundice; hematuria (blood in the urine), renal shutdown; dermatitis, optical neuritis, corneal damage	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Molten flush immediately/solid-liquid soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
2,6-Dinitrotoluene	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene	N/A	N/A	N/A	N/A	N/A

<u>Phenolics</u>	5 ppm TWA (dermal)	250 ppm TWA	Irritation eyes, nose, throat; anorexia, weight loss; lassitude (weakness, exhaustion), muscle ache, pain; dark urine; cyanosis; liver, kidney damage; skin burns; dermatitis; ochronosis; tremor, convulsions, twitching	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
PCBs	0.5 mg/m3 TWA (dermal)	5 mg/m3	Irritation eyes, chloracne; liver damage; reproductive effects;	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
Metals					
Antimony	0.5 mg/m3 TWA (dermal)	50 mg/m3	Irritation of eyes, skin, nose, throat, mouth; coughing; dizziness; headache, nausea, vomiting, diarrhea, stomach cramps, insomnia, anorexia, ability to smell changes	Inhalation Ingestion Contact	Eye: irrigate immed. Skin: soap wash promptly Breath: respiratory support Swallow: immed. Medical attention

Arsenic	0.010 mg/m3 TWA (dermal)	5.0 mg/m3	Cough, sore throat, shortness of breath, weakness, redness, abdominal pain, diarrhea, nausea, vomiting, burning sensation in throat and chest, shock or collapse, unconsciousness.	Inhalation Ingestion Contact	Irrigate eyes immediately; wash skin w/ soap/ water; provide respiratory support if inhaled; if swallowed, rinse mouth and induce vomiting (if conscious) and seek immediate medical attention
Cadmium	0.005 mg/m3 TWA (dermal)	9 mg/m3	Pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	Inhalation Contact Ingestion	Eye: irrigate immed. Contact physician Skin: soap wash promptly. Inhale: remove to fresh air. Ingest contact physician.

Copper	1 mg/m ³ TWA (dermal)	100 mg/m ³	Irritation eyes, respiratory system; cough, dyspnea (breathing difficulty), wheezing	Inhalation, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately.
Lead	0.05 mg/m ³ TWA (dermal)	100 mg/m ³	Weakness, insomnia, gingival lead line, abdominal pain, irritated eyes	Inhalation, Ingestion, Contact	Eye: irrigate immed. Skin: soap wash promptly Breath: respiratory support Swallow: immed. Medical attention
Mercury (inorganic)	0.1 mg/m ³ TWA (dermal)	10 mg/m ³	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude; stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
Nickel	1.0 mg/m ³ TWA (dermal)	10 mg/m ³	Sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Inhalation, ingestion, skin and/or eye contact	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Thallium	0.1 mg/m ³ TWA (dermal)	15 mg/m ³	Nausea, diarrhea, abdominal pain, vomiting; ptosis, strabismus; peri neuritis, tremor; retrosternal tightness, chest pain, pulmonary edema; convulsions, chorea, psychosis; liver, kidney damage; alopecia; paresthesia legs	Inhalation, skin absorption, ingestion, skin and/or eye contact	Eye: Irrigate immed. Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
Zinc	5 mg/m ³ TWA (dermal)	500 mg/m ³	Metal fume fever: chills, muscle ache, nausea, fever, dry throat, cough; lassitude (weakness, exhaustion); metallic taste; headache; blurred vision; low back pain; vomiting; malaise (vague feeling of discomfort); chest tightness; dyspnea (breathing difficulty), rales, decreased pulmonary function	Inhalation	Breathing: Respiratory support

4.2 Task Specific Hazard Analysis

Task	Potential Hazard	Precautions
Mobilization to site	<p>A) Physical Hazards</p> <ol style="list-style-type: none"> 1. Road Safety 2. Improper Lifting – Sprains, Strains 3. Electrical from utility hookup 4. Trip/Fall hazards 5. Hand Tool Safety 6. Vehicle - Struck By <p>B) Biological Hazards</p> <ul style="list-style-type: none"> • None <p>C) Chemical Hazards</p> <ul style="list-style-type: none"> • None 	<ol style="list-style-type: none"> 1. Expect the other driver to do the unexpected. Drive with care and consideration. Your life depends on it. 2. Follow carefully all lifting procedures. Single lifter not to exceed 50 lbs. 3. Use qualified electrician to do hook up. Have GFCI installed for power tool use. 4. Where Possible, clear access to areas where work is to be performed 5. Inspect tools carefully prior to using. Discard any chipped, cracked or otherwise damaged tools 6. Use of traffic control signs and MUTCD codes is required while performing roadwork.

Soil Excavation and Loadout	<p>A) Physical Hazards</p> <ol style="list-style-type: none"> 1. Excavation cave-in 2. Contact with utilities 3. Trip/Fall Hazards 4. Heavy Equipment 5. Vehicle Traffic 6. Undermining building foundation. <p>B) Biological Hazards</p> <ol style="list-style-type: none"> 1. Poisonous plants 2. Biting/ stinging insects <p>C) Chemical Hazards</p> <ol style="list-style-type: none"> 1. Contact with contaminated materials 2. Hazardous atmospheres 	<ol style="list-style-type: none"> 1. Follow JMC excavation safety SOP 2. Perform utility markouts 3. Maintain safe distances 4. Support utilities in excavation 5. Hand excavate to verify utility location 6. Keep access-ways clear of debris. 7. Keep out of swing radius and pinch points 8. Use three point mount and dismount 9. Wear traffic vests outside of barricaded work zones 10. Follow Engineer recommendations when excavating near building foundation, including benching, sloping, and/or shoring. <ol style="list-style-type: none"> 1. Plants such as poison sumac, oak and ivy may be present. Use Tyvek and/ or barrier cream when doing bush-work 2. Eliminate stinging insects with insecticides <ol style="list-style-type: none"> 1. Wear PPE specified in HASP 2. Perform air surveillance specified in HASP 3. Follow decontamination procedures
Backfilling & Site Restoration	<p>A) Physical Hazards Heavy Equipment</p> <p>B) Biological Hazards None Significant</p> <p>A) Chemical Hazards None Significant</p>	<ol style="list-style-type: none"> 1. Keep out of swing radius and pinch points 2. Use three point mount and dismount 3. Wear traffic vests when working within 15 ft or roadway.

Demobilization	A) Physical Hazards 1. Improper Lifting B) Biological Hazards 1. None C) Chemical Hazards • None	3. Follow carefully all lifting procedures. Single lifter not to exceed 50 lbs
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5.0 PERSONNEL TRAINING REQUIREMENTS

5.1 General

Site personnel must be trained in accordance with OSHA's 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response Standard. At a minimum, personnel are required to be trained to recognize the hazards on-site, the provisions of this HASP, and the personnel responsible for safety on the site.

5.2 Pre-Assignment and Annual Refresher Training

Prior to arrival on site, JMC and each subcontractor will be responsible for certifying that his/her employees meet the requirements of pre-assignment training, consistent with OSHA 29 CFR 1910.120 paragraph (e)(3). JMC and each subcontractor must be able to provide a document certifying that each general site worker has received 40 hours of off-site instruction. The Site Health and Safety Officer will maintain documentation verifying that OSHA-mandated health and safety training requirements have been met.

Any person who is going to enter the contamination reduction zone or exclusion zone will have completed a 40-hour training course as required by 29 CFR 1910.120 (OSHA), plus three days of actual field experience under the direct supervision of a trained and experienced supervisor. Site personnel must also receive 8 hours of refresher training annually.

5.3 Site Supervisor Training

Consistent with OSHA 29 CFR 1910.120 paragraph (e)(4), individuals designated as Site Supervisors receive an additional 8 hours of training.

5.4 Health and Safety Plan Review and Site Specific Training

Prior to working on the site, each person will review the HASP and will have the opportunity to ask questions of the Site Health and Safety Officer about the plan's contents. After reviewing the HASP, JMC employees and subcontractor employees will sign the HASP Review Sign-Off (Safety Briefing form) located in Attachment A. Employees will then be instructed on proper dressout and decontamination procedures without exception.

5.5 Daily Site Safety Meetings

Site safety meetings will be conducted daily. The meeting will cover:

- the work to be completed;
- hazards associated with the work; and,
- hazard control measures to be implemented.

JMC subcontractor employees and their supervisor(s) are required to attend.

6.0 PERSONAL PROTECTIVE EQUIPMENT

This section describes the specific levels of protection required for each task to be conducted at the site. The general requirements of the EPA designated Levels of Protection (A-D) are described in the JMC Corporate Health and Safety Program Manual. The level of protection to be worn by field personnel will be monitored by the SHSO.

6.1 Specific Levels of Protection Planned for the Site

PPE selection is both task-specific and responsive to air monitoring data. Table 6.1 (below) lists task specific PPE levels. These levels are disqualified for use if air monitoring indicates that the upper action limit for the level of protection being used is exceeded. Start the task in the PPE listed in the far left column. Once sufficient air monitoring data has been collected, downgrades to PPE levels in the right hand columns may be instituted.

<i>Table 6.1: Levels of Protection</i>				
Location	Job Function/Task	Initial Level of Protection		
Support Zone	Project Management Activities Material Storage	D D		
Contamination Reduction Zone (CRZ)	Equipment Decontamination Decontamination of personnel	D+ D+		
Exclusion Zone	Contaminated soil excavation/ handling with dust monitoring data below action limit..... Contaminated soil excavation/ handling with dust monitoring data above action limit.....	D+ C		

Adherence to the specified level of protection is the responsibility of the Response Manager and the Site Safety Officer. The HSM will evaluate work practices, air quality, and other factors in making this determination.

6.2 Ensemble Components

The components included in each level of PPE and explanations for their use are presented as follows:

6.2.1 Level C

Level C shall consist of the following items:

- MSA Full face air purifying cartridge respirator with P100 Cartridges.
- Steel-toed boots
- Boot covers
- Hard hat
- Saranex (liquid resistant) coveralls for work with wet materials
- Tyvek or equivalent for dry materials
- Thin mil PVC or latex inner gloves
- Leather outer gloves

- Hearing protection around heavy equipment

6.2.2 Level D+

This is the basic work uniform and shall consist of the following items:

- Tyvek or equivalent for dry materials
- Thin mil PVC or latex inner gloves
- Leather outer gloves
- Hard hat
- Safety glasses
- Steel-toed boots
- Boot covers
- Hearing protection (as applicable)
- Traffic vests (Type II) as appropriate

6.2.3 Level D

This is the basic work uniform and shall consist of the following items:

- Hard hat
- Safety glasses
- Steel-toed boots
- Boot covers
- Hearing protection (as applicable)
- Traffic vests (Type II) as appropriate

6.3 Application

Table 6.1 details the anticipated levels of protection for different tasks. However, site developments may prompt changes in the levels of PPE. Proper notification of the SHSO, HSD, and JMC Response Manager is required to ensure continued safe operations.

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE KNOWLEDGE AND APPROVAL OF THE HEALTH AND SAFETY MANAGER, JMC SITE HEALTH AND SAFETY OFFICER, AND THE JMC RESPONSE MANAGER.

6.4 Inspection

Before personal protective equipment is worn within the exclusion zone, it will be properly inspected by its user. The JMC SOP pertaining to inspection of PPE provides guidelines and a checklist for the visual inspection of respiratory protective equipment and chemical protective clothing.

7.0 MEDICAL SURVEILLANCE REQUIREMENTS

7.1 General

JMC utilizes a Medical Monitoring Program designed to determine each employee's health status and fitness (including the ability to utilize respiratory protection) for working at hazardous waste sites. JMC personnel involved in hazardous waste site activities are required to undergo baseline, annual, and site specific examinations, as necessary. JMC utilizes the services of physicians experienced in occupational medicine and the effects of toxic industrial substances. Medical surveillance records for JMC employees are retained for the length of employment plus 30 years.

JMC and subcontractor personnel involved in work activities with potential exposure to contamination by any route of exposure are required to participate in a Medical Monitoring Program. Workers must undergo a pre-work baseline or annual examination no more than 12 months prior to participation in on-site field activities. Workers must undergo follow-up examinations at 12 month intervals, or upon conclusion of the remediation project.

Subcontractors involved in work activities in the contamination reduction zone (decontamination zone) or exclusion zone shall provide medical monitoring for their employees and shall utilize physicians experienced in occupational medicine and the effects of toxic industrial substances. JMC employees who are terminating their employment with JMC, whether voluntarily or involuntarily, must undergo an exit physical. The physical exams required as part of the Medical Monitoring Program are described in detail in the JMC Health and Safety Manual for Hazardous Waste Site Activities.

7.2 Specific Medical Monitoring Measures

Physiological monitoring for heat stress will be performed in accordance with the JMC Heat Stress SOP.

8.0 AIR SURVEILLANCE

8.1 General

This section specifies the surveillance activities that will take place during the project. Air surveillance objectives include:

- Characterizing breathing zone (BZ) concentrations of toxic substances for comparison with Action Limits; and,
- Determining the appropriateness of respiratory protective equipment.
- Monitoring dust control effectiveness

8.2 Monitoring During Operations

Routine air monitoring will be conducted as a part of daily operations. Guidelines for conducting this monitoring are as follows:

- During daily operations to document site conditions
- When the possibility of an IDLH condition or flammable atmosphere has developed
- When work begins at a different area of the site
- If new areas of contamination are discovered or if contaminants other than those previously identified are handled
- Prior to and continuously during permit required confined space entries
- When a new operational procedure is introduced
- When special or unusual conditions warrant this action as determined by the SHSO

8.3 Location of Monitoring Activity by Parameter

Air monitoring is to be conducted under worst case and average conditions to represent the range of anticipated exposures. The schedule is presently envisioned as follows:

Mini-Ram or equivalent dust monitor – these measurements will commence when soil excavation occurs. Mini-ram measurements will be made hourly during excavation activities.

Measurements will be made in employee breathing zones and at the work zone perimeter.

8.4 Implementation

The JMC SHSO is responsible for:

- Daily calibration of instruments;
- Documentation of calibration, instrument readings and site conditions/activities during monitoring;
- Directing activities with regard to air monitoring results; and
- Communicating results to employees.

8.5 VOC Monitoring, Response Levels and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e. - the exclusion zone). Upwind concentrations beyond the work zone will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be monitored using a photo-ionization detector (PID). A PID is an air monitoring instrument which provides fast and accurate readings of organic vapors. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.

If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate or otherwise handle vapors, and monitoring continued. After taking corrective action, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

If the organic vapor level is above 25 ppm at the perimeter of the work area activities will be stopped until the situation can be evaluated and safely restarted.

15-minute readings will be recorded and be available for JMC personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

8.6 Air Particulate Real Time Monitoring

PCBs have low volatility in air, and therefore, releases to the atmosphere via volatilization are not of concern. However, since PCBs can be transported via dust, prevention of PCB migration will be handled using dust control methods.

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using DataRam or equivalent real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. A DataRam is a real-time air monitoring instrument which collects instantaneous dust particulates and averages the amount of dust particles over a selected timeframe. This instrument is utilized to determine whether dust suppression measures are necessary. In addition, fugitive dust migration will be visually assessed during work activities.

If the downwind PM-10 particulate level is 100 micrograms per cubic meter (ug/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 ug/m^3 above the upwind level and provided that no visible dust is migrating from the work area. The Action Level for airborne dust is based on the USEPA 24-hour National Ambient Air Quality Standard (NAAQS) for PM-10 particulate of 150 ug/m^3 .

If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 ug/m^3 above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 ug/m^3 of the upwind level and in preventing visible dust migration.

Table 8.1: Instruments and Action Levels		
Instrument/Method	Action Level	Specific Action
VOCs		
PID	>5 ppm / 15 min.	Halt work, confirm levels
	>25 ppm	Halt work, take corrective action
AIR PARTICULATES		
MiniRam	≥ 100 ug/m ³ sustained at work zone perimeter for 2 minutes	Implement Level C PPE and dust control measures and increase monitoring frequency
	> 150 ug/m ³	Stop work, take corrective action

8.7 Air Sampling

Personal air sampling will not be necessary unless action levels for upgrading to Level C are exceeded.

9.0 SITE CONTROL MEASURES

9.1 Control Zones

The Response Manager has been designated to coordinate access control on the work site. No unauthorized person shall be allowed beyond the contamination control line. During activities in the exclusion zone, the implementation of a buddy system is mandatory. Level B operations require a minimum of three people.

Figure 9-1 Control Zones

Drawing(s) to be prepared on site and attached.

Standing orders for the exclusion zone and contamination reduction zone are presented below:

<i>Standing orders for the exclusion zone and contamination reduction zone are as follows:</i>	
•	No smoking, eating, or drinking in these zones. Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand-to-mouth transfer and ingestion of any material is prohibited in any area designated as a contamination reduction zone or exclusion zone.
•	No matches or lighters in these zones.
•	Check-in on entrance to the contamination reduction zone. Check-out on exit from this zone. Entrance and exit locations shall be designated and emergency escape routes delineated. Warning signals for site evacuation have been established.
•	Implement the communications system. Communications using radios, hand signals, signs, or other means shall be maintained between work crew members at all times. Emergency communication shall be prearranged in case of radio failure, necessity for evacuation off site, or other reasons.
•	Maintain visual contact between exclusion zone entrants.
•	Wear the appropriate level of protection as defined in the site specific Health and Safety Plan.
•	Work will be performed during daylight hours unless adequate lighting is available.
•	Contact with known or suspected contaminated surfaces should be avoided. Whenever possible, there will be no walking through puddles or discolored surfaces; kneeling on ground; or leaning, sitting or placing equipment on drums, containers, or the ground.
•	Prescribed drugs should not be taken by personnel where the potential for absorption, inhalation, or ingestion of toxic substances exists, unless specifically approved by a qualified physician.
•	Respirator wearers must be certified as being capable of wearing respiratory protection (physician's approval, fit tested) while performing their assigned tasks. Respirator wearers must have been fit tested, within the past 12 months, with the make and size respirator to be worn. No facial hair is allowed that would interfere with respirator fit.
•	Work areas for operational activities shall be clearly established and clearly delineated in the site specific Health and Safety Plan.
•	Work areas and decontamination procedures shall be established based on expected site conditions and clearly delineated in the site specific Health and Safety Plan.

Personnel and equipment in the exclusion zone(s) will be minimized, consistent with effective site operations.

9.2 Site Communications Plan

Hand signals, radios, and telephones are the modes of communication to be used at the site. Hand signals will be reviewed by the Site Response Manager with site personnel prior to the start of the project and periodically at daily safety meetings. Standard hand signals include:

ACTION	MEANING
Hands around throat	- out of air/can't breathe
Thumbs up	- OK/yes
Thumbs down	- negative, no
Hands on top of head	- need assistance
Grip partner's wrist/waist	- leave area immediately

When working in the exclusion zone, personnel will not be allowed to work alone. The buddy system will be in place to provide aid in case of an emergency.

The Response Manager is responsible for the management of communications during normal and emergency operations.

9.3 Sanitation Facilities

Portable sanitation facilities will be maintained in the support zone at a frequency of one porta-john per 10 employees. Potable and non-potable water will be marked accordingly.

10.0 Decontamination Plan

Decontamination of equipment and personnel will be performed to limit the potential migration of contaminants outside the exclusion zone. Equipment and personnel will be decontaminated prior to leaving the exclusion zone.

10.1 Levels of Decontamination Protection Required for Assisting Personnel

The level of protection required for personnel assisting with decontamination will be one level below the individual being decontaminated. The Site Health and Safety Officer is responsible for monitoring decontamination procedures and determining their effectiveness.

10.2 Equipment Decontamination

10.2.1 Sampling Equipment

Sampling equipment will be decontaminated in accordance with the SOP provided in the Quality Assurance Project Plan (QAPP). The QAPP for this project is provided in the E&M Plan prepared for the Arsynco, Inc. remedial program. Decontamination fluids will be collected and disposed of according to the Site Work Plan. A sampling equipment decontamination area will be established which will prevent the release of contaminated decontamination fluids.

10.3 Personnel Decontamination

10.3.1 Procedure

Site personnel should minimize contact with contaminants in order to minimize the need for extensive decontamination. Personnel decontamination will be conducted in the decontamination zone. Gross decontamination for PPE Level D+ will include:

1. Remove coverall (dry rollout)
2. Remove Boot covers (dry roll-out)
3. Remove outer gloves
4. Remove Hard Hat and Hang
5. Remove outer suit
6. Remove Inner Gloves
7. Conduct hand and face washing

10.3.2 Equipment

Equipment to be removed from the zone will be wet wiped as it is prepared for storage.

Heavy equipment will be pressure washed with water before leaving the site. Cab interiors will be wet wiped.

10.4 Disposition of Decontamination Wastes

Equipment used for decontamination shall be decontaminated or disposed of properly. Aqueous liquids will be disposed of according to the Site Work Plan. All disposable PPE will be containerized and properly disposed.

10.5 Emergency Decontamination Procedures

Section 11.8 details emergency decontamination procedures.

11.0 EMERGENCY RESPONSE PLAN

This Emergency Response Plan has been prepared to define the responsibilities, resources and actions necessary to respond to uncontrolled releases of contaminated materials and injury to personnel.

11.1 Pre-Emergency Planning

This Emergency Response Plan will be reviewed and revised on a regular basis (if necessary) by the SHSO. This will ensure that the plan is adequate and consistent with prevailing site conditions.

During the daily safety meetings, employees will be trained in and reminded of the provisions of the Emergency Response Plan, communication systems, and evacuation routes.

Local emergency medical, fire, and police resources will be identified.

11.2 Personnel Roles and Lines of Authority

The Response Manager has primary responsibility for responding to and correcting emergency situations. This includes taking appropriate measures to ensure the safety of site personnel and the public. Possible actions may involve evacuation of personnel from the site area, and notifying local authorities for the evacuation of adjacent residents. The Response Manager is additionally responsible for ensuring that corrective measures have been implemented, appropriate authorities notified, and follow-up reports completed. The SHSO may be called upon to act on the behalf of the Response Manager, and will direct responses to any medical emergency.

The individual subcontractor organizations are responsible for assisting the Response Manager in his/her mission within the parameters of their scope of work.

11.3 Emergency Recognition/Prevention

Section 4.0 identifies the chemical and physical hazards on site. Additional hazards that may result from site activities are listed in Table 11.1. This table also lists prevention and control techniques/mechanisms. Personnel will be familiar with techniques of hazard recognition from pre-assignment training and site specific briefings. The SHSO is responsible for ensuring that prevention devices or equipment are available to personnel.

<i>Table 11.1: Emergency Recognition/Control Measures</i>		
Potential Hazard	Prevention/Control	Location of Response Equipment
Fire	<ul style="list-style-type: none"> • Fire Extinguisher (15 lb dry chemical) • Fire Extinguisher (5 lb dry chemical) • %LEL monitoring • Ignition source control • Hot work permit 	<ul style="list-style-type: none"> • Fuel Tank • Each piece of heavy equip.
Spill	<ul style="list-style-type: none"> • Berms/Dikes • Sorbent Materials • Visqueen 	<ul style="list-style-type: none"> • Storm water drains • CRZ area • Next to potential release points
Air Release <ul style="list-style-type: none"> • Particulates 	<ul style="list-style-type: none"> • Water spray in misting applications • Keep excavated soil covered 	<ul style="list-style-type: none"> • In the exclusion zone, • next to potential release points

11.4 Emergency Equipment/Facilities

Figure 9.1 identifies the location of the following emergency equipment:

- First aid kit
- Fire extinguishers
- Telephone
- Eye wash

The following safety equipment and materials will be maintained on site, near the exclusion zone:

Safety Equipment

Number	Item
1	Industrial First Aid Kit, Maintained in the decontamination area
1	Portable Eye Wash to be maintained accessible to work areas such that time of travel is less than 1 minute (15 minutes to flush)
Multiple	Fire Extinguishers

11.5 Evacuation Routes/Procedures

In the event of an emergency which necessitates an evacuation of the site, the following procedures will be implemented:

Evacuation alarm notification should be made using one long blast on the air horn. All personnel should evacuate upwind of any activities. A predetermined off-site location (rally point) has been identified for a personnel head count in case of an emergency.

Personnel will be expected to proceed to the closest exit and mobilize to the safe distance area associated with the evacuation route. Personnel will remain at that area until the Response Manager or SHSO provides further instructions.

Evacuation routes for the site and the immediate area are depicted on Figure 9.1. This figure also indicates the rally point in the event of a major incident.

11.6 Emergency Communications

At the work site, an air horn shall be made available to sound one long blast if evacuation of the work area is required. The following hand signals will be recognized by each site worker:

Signal	Meaning
Grip partner's wrist	Leave area immediately and report to staging area
Hand on top of head	Need assistance
Thumbs up	OK; I'm all right, I understand
Thumbs down	No; negative
Three short blasts of air horn	Evacuate work area safely

11.7 Emergency Contact/Notification System

Spills of contaminated liquids or solids on site soils or waters will immediately be reported to the JMC Response Manager. Spills which are potentially reportable include:

1.	Quantities sufficient to produce a sheen, discoloring, or potential contamination of site waters
2.	Liquid quantities which produce surface "pooling" or "puddling" effects
3.	Solids misplaced during handling or transport operations

Notification requirements may include the following:

1.	A site meeting with Site Response Manager
2.	A telephone call to the National Response Center in Washington, D.C. or to the appropriate State officials if the spill has the potential to affect the surrounding population.

If necessary, the JMC Site Representative will provide the following information to federal and state authorities:

1.	Name, address, and telephone number of person reporting
2.	Details regarding the party responsible for the incident
3.	Date and time the incident occurred or was discovered
4.	Specific location of the spill
5.	Name of material spilled or released
6.	Source of spilled material
7.	Estimated quantity spilled or discharged
8.	Cause of the release
9.	Weather conditions
10.	Number and type of injuries or fatalities (if applicable)
11.	Whether evacuations have occurred
12.	Estimated dollar amount of property damage
13.	Description of cleanup action taken and future plans

Federal and state laws require immediate notification upon discovery of a spill or following timely spill source control, containment, and countermeasures. However, spill source control and initiation of spill containment activities may at times take priority over notification of federal and state authorities.

Table 11.2 provides names and telephone numbers of emergency assistance organizations. A copy of this table will be posted and or located in the site trailer and in permanent site vehicles. In the event of a fire or spill, the Site Response Manager will notify the appropriate local, state, and federal agencies. In the event of a medical emergency, personnel will take direction from the SHSO and notify the appropriate emergency organization.

<i>Table 11.2: Emergency Assistance Telephone List</i>		
Emergency Assistance Organization	Telephone Number	
St Mary's Hospital 350 Boulevard Passaic, NJ	973-365-4300	
Ambulance/Rescue Squad	911	
Fire	911	
Local Police	911	
	Land Line	Cell Phone
JMC Response Mgr	732-295-2144	732-977-6545
JMC Program Mgr	732-295-2144	908-963-3965
JMC H&S Director	732-295-2144	908-963-3965
JMC Office	732-295-2144	
EPA National Response Center	1-800-424-8802	
Center for Disease Control Hotline	(888) 232-6348	
Chemtrec (24 hours)	(800) 262-8200	
EPA (RCRA - Superfund Hotline)	1-800-424-9346	
U. S. Coast Guard National Response Center (NRC) (Oil/Hazardous Substances)	(800) 424-8802	
National Pesticide Telecommunications Hotline	(800) 858-7378	

Route to Hospital



11.8 Emergency Medical Treatment Procedures

Any person who becomes ill or injured in the exclusion zone must be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination should be completed and first aid administered.

In the event of an injury requiring more than minor first aid, or any employee reporting any sign or symptom of exposure to hazardous substances, immediately take the victim to a local emergency medical provider. In the event of life-threatening or traumatic injury, implement appropriate first aid and immediately call for emergency medical assistance.

If the patient's condition is serious, at least partial decontamination should be completed (i.e., complete disrobing of the victim and redressing in clean coveralls or wrapping in a blanket). First aid should be administered while awaiting an ambulance or paramedics.

When an individual(s) is being transported to a clinic or hospital for treatment, the Response Manager, or SHSO should ensure that information on the chemical(s) the individual(s) have been exposed to at the site is taken. This information; which is included in Section 4.0, could also be given to the hospital during site set-up activities. Any vehicle used to transport contaminated personnel will be treated and cleaned as necessary.

11.9 Fire or Explosion

In the event of a fire or explosion, the local Fire Department should be summoned immediately. Upon their arrival, the Response Manager or designated alternate will advise the fire commander of the location, nature, and identification of the hazardous materials on site.

The SHSO shall act as the designated site emergency coordinator and shall have final authority for initial response to on-site emergency situations. Upon arrival of the appropriate emergency response personnel, the SHSO shall defer all authority but shall remain on the scene to provide assistance, if necessary. At the earliest opportunity, the SHSO shall contact the Response Manager.

JMC employees may fight incipient stage fires using portable fire extinguishers. Employees must retreat from fires that endanger egress and/ or fires that involve containers of hazardous materials.

11.10 Spill or Leaks

In the event of a spill or a leak, site personnel will:

- Inform the Response Manager immediately
- Locate the source of the spillage and stop the flow if it can be done safely
- Begin containment and recovery of the spilled materials
- Report the incident to JMC management for further instructions

If a spill occurs and safe re-entry is possible, containment procedures will begin. Simultaneously, the source of the spill will be stopped if it is still releasing material. Once containment is complete, cleanup will begin. The priority for containment and cleanup will be the prevention of material reaching surface waters. The JMC representative will be responsible for any reporting procedures that are required as a result of the spill.

12.0 Biological Hazards

Biological hazards that may be found on site include insects, such as ticks, mosquitoes, spiders, centipedes, poisonous snakes, vermin, and hazardous plants. Depending on the season and weather, the hazards vary. For instance, during cold weather many animals and insects are not active and most plants are dormant. Employee awareness and the safe work practices outlined in the following paragraphs should reduce the risk associated with these hazards.

12.1 Hazardous Plants

During the conduct of site activities the number and variety of hazardous plants that may be encountered is large and extensive. The ailments associated with these plants range from mild hay fever to contact dermatitis, to carcinogenic affects. However, the plants which present the greatest degree of risk to site personnel (i.e., potential for contact vs. affect produced) are those which produce skin reactions and skin and tissue injury.

The poisonous plants of greatest concern are poison oak, poison sumac, and poison ivy. Poison oak is mostly found in the southeast and west. Poison oak resembles poison ivy, with one important difference. The poison oak leaves are more rounded rather than jagged like poison ivy and the underside of poison oak leaves are covered with hair. Poison ivy thrives in all types of light and usually grows in the form of a trailing vine. However, it can also grow as a bush and can attain heights of 10 feet or more. Poison ivy has shiny, pointed leaves that grow in clusters of three. Poison sumac is a tall shrub or slender tree that usually grows along swampy areas or ponds in wooded areas. Each poison sumac leaf stalk has 7 to 13 leaflets that have smooth edges.

The skin reaction associated with contacting these plants is caused by the body's allergic reaction to toxins contained in oils produced by the plant. Becoming contaminated with the oils does not require contact with just the leaves. Contamination can be achieved through contact with other parts of the plant such as the branches, stems or berries, or contact with contaminated items such as tools and clothing. The allergic reaction associated with exposure to these plants will generally cause the following signs and symptoms:

- Blistering at the site of contact, usually occurring within 12 to 48 hours after contact;
- Reddening, swelling, itching and burning at the site of contact;
- Pain, if the reaction is severe;
- Conjunctivitis, asthma, and other allergic reactions if the person is extremely sensitive to the poisonous plant toxin.

If the rash is scratched, secondary infections can occur. The rash usually disappears in 1 to 2 weeks in cases of mild exposure and up to 3 weeks when exposure is severe. Preventative measures that can prove effective for most site personnel are:

- Avoid contact with any poisonous plants on site, and keep a steady watch to identify, report and mark poisonous plants found on site;
- Wash hands, face or other exposed areas at the beginning of each break period and at the end of each work day;
- Avoid contact with, and wash on a daily basis, contaminated tools, equipment and clothing;
- Barrier creams, detoxification/wash solutions and orally administered desensitization may prove effective and should be tried to find the best, preventative solution.

12.2 ANIMALS

Normally, wildlife will avoid people and areas where activities are ongoing. Small animals, such as raccoons, infected with rabies or when cornered, may become aggressive. When working, remain alert for likely locations that animals inhabit. Avoid nests, dens, and holes in the ground that may be the animal's home. If bitten by an animal, seek medical attention immediately. Do not try to capture the animal, you may only get other personnel bitten.

12.3 TICK BITES

The Center for Disease Control (CDC) has noted the increase of Lyme Disease and Rocky Mountain Spotted Fever (RMSF) which are caused by bites from infected ticks that live in and near wooded areas, tall grass, and brush. Ticks are small, ranging from the size of a comma up to about one quarter inch. They are sometimes difficult to see. The tick, season extends from spring through summer. When embedded in the skin, they may look like a freckle,

12.3.1 Lyme Disease

Lyme disease has occurred in 43 states, with the heaviest concentrations in the Northeast (Connecticut, Massachusetts, New Jersey, New York, Pennsylvania), the upper Midwest (Minnesota and Wisconsin), and along the northern California coast. It is caused by deer ticks and the lone star ticks which have become infected with spirochetes. Female deer ticks are about one quarter inch in size, and are black and brick red in color. Male deer ticks are smaller, and completely black. Lone star ticks are larger and chestnut brown in color.

12.3.1-a Symptoms

The first symptoms of Lyme disease are flu like chills, fever, headache, dizziness, fatigue, stiff neck, and bone pain. If immediately treated by a physician, most individuals recover fully in a short period of time. If not treated, more serious symptoms can occur.

12.3.1-b Treatment

If you believe that you received a tick bite, or if any of the signs and symptoms noted above appear, contact the SSO, who will authorize you to visit a physician for an examination and possible treatment.

12.3.1-c Protective Measures

Standard field gear (work boots, socks, and work uniform) provide good protection against tick bites, particularly if the openings are taped. However, even when wearing field gear, the following precautions should be taken when working in areas that might be infested with ticks:

- When in the field, check yourself often for ticks, particularly on your lower legs and areas covered with hair;
- Spray outer clothing, particularly your pant legs and socks, with an insect repellant that contains DEET;
- When walking in wooded areas, avoid contact with bushes, tall grass, or brush as much as possible;
- If you find a tick, remove it by pulling on it gently with tweezers;
- If the tick resists, cover the tick with salad oil for about 15 minutes to asphyxiate it, then remove it with tweezers,
- Do not use matches, a lit cigarette, nail polish or any other type of chemical to "coax" the tick out;
- Be sure and remove all parts of the tick's body, and disinfect the area with alcohol or a similar antiseptic after removal; and
- For several days to several weeks after removal of the tick, look for the signs of the onset of Lyme disease, such as a rash that looks like a bullseye or an expanding red circle surrounding a bite area, frequently seen with a small welt in the center;
- Also look for the signs of the onset of Lyme Disease, such as an inflammation which is visible in the form of a rash comprising many red spots under the skin, which appears 3 to 10 days after the tick bite.

12.4 Bees, Hornets And Wasps

Contact with stinging insects like bees, hornets and wasps may result in site personnel experiencing adverse health affects that range from mild discomfort to life threatening. Therefore, stinging insects present a serious hazard to site personnel, and extreme caution must be exercised whenever site and weather conditions increase the risk of encountering stinging insects. Some of the factors related to stinging insects that increase the degree of risk associated with accidental contact are as follows:

- The nests for these insects are frequently found in remote wooded, grassy areas where many waste sites are located,
- The nests can be situated in trees, rocks, bushes or in the ground, and are usually difficult to see; Accidental contact with these insects is highly probable, especially during warm weather conditions when the insects are most active;
- If a site worker accidentally disturbs a nest, the worker may be inflicted with multiple stings, causing extreme pain and swelling which can leave the worker incapacitated and in need of medical attention;
- Some people are hypersensitive to the toxins injected by a sting, and when stung, experience a violent and immediate allergic reaction resulting in a life threatening condition known as anaphylactic shock;
- Anaphylactic shock manifests itself very rapidly and is characterized by extreme swelling of the body, eyes, face, mouth and respiratory passages;
- The hypersensitivity needed to cause anaphylactic shock can, in some people, accumulate over time and exposure; therefore, even if someone has been stung previously, and has not experienced an allergic reaction, there is no guarantee that they will not have an allergic reaction upon receipt of another sting.

12.4.1 Protective Measures

With these things in mind and with the high probability of contact with stinging insects, all site personnel will comply with the following safe work practices:

- If a worker knows that he is hypersensitive to bee, wasp or hornet stings, they must inform the SHSO of this condition prior to participation in site activities;
- All site personnel will be watchful for the presence of stinging insects and their nests, and will advise the SHSO if a stinging insect nest or presence of a swarm of bees is located or suspected in the area;
- Any nests located on site will be flagged off and site personnel will be notified of its presence;

- If stung, site personnel will immediately report the SHSO to obtain treatment and to allow the SHSO to observe them for signs of allergic reaction;
- Site personnel with a known hypersensitivity to stinging insects will keep required emergency medication on or near their person at all times.

12.5 Biting Insects

Many types of biting insects such as mosquitoes, flies and fleas may be encountered on site. The use of insect repellents will be encouraged by the SHSO if deemed necessary. The biting insects of greatest concern are spiders, especially the black widow and the brown recluse. These spiders are of special concern due to the significant adverse health effects that can be caused by their bite.

12.5.1 Black Widow Spider

The black widow is a coal black bulbous spider 3/4 to 1 1/2 inches in length, with a bright red hourglass on the under side of the abdomen. The black widow is usually found in dark moist locations, especially under rocks, rotting logs and may even be found in outdoor toilets where they inhabit the underside of the seat. Victims of a black widow bite may exhibit the following signs or symptoms:

- Sensation of pinprick or minor burning at the time of the bite;
- Appearance of small punctures (but sometimes none are visible);
- After 15 to 60 minutes, intense pain is felt at the site of the bite which spreads quickly, and is followed by profuse sweating, rigid abdominal muscles, muscle spasms, breathing difficulty, slurred speech, poor coordination, dilated pupils and generalized swelling of face and extremities.

12.5.2 Brown Recluse Spider

The brown recluse is brownish to tan in color, rather flat, 1/2 to 5/8 inches long with a dark brown "violin" shape on the underside. It may be found in trees, or in dark locations. Victims of a brown recluse bite may exhibit the following signs or symptoms:

- Blistering at the site of the bite, followed by a local burning at the site 30 to 60 minutes after the bite;
- Formation of a large, red, swollen, postulating lesion with a bull's eye appearance;
- Systemic affects may include a generalized rash, joint pain, chills, fever, nausea and vomiting; and pain may become severe after 8 hours, with the onset of tissue necrosis.

12.5.2-a Treatment for Spider Bites

There is no effective first aid treatment for either of these bites. Except for very young, very old or weak victims, these spider bites are not considered to be life threatening, however medical treatment must be sought to reduce the extent of damage caused by the injected toxins. If either of these spiders are suspected or known to be on site, the SHSO will brief the site personnel as to the identification and avoidance of the spiders. As with stinging insects, site personnel should report to the SHSO if they locate either of these spiders on site or notice any type of bite while involved in site activities.

ATTACHMENT A

HEALTH AND SAFETY FORMS

1. Accident/Incident Report
2. Daily Safety Meeting Form
3. Qualitative Respirator Fit Test and Inspection Form
4. Daily Safety Report
5. SSHP Change Authorization
6. SSHP Sign-Off
7. Air Monitoring Log

Personal & Background Information									
1. Case Number 		2. Soc. Sec. No. 		3. Name (Last name, first initial) 				5. Age 	
6. Sex <input type="checkbox"/> M <input type="checkbox"/> F		7. Branch 		8. Job or Site Name 				9. Job Number 	
11. Time of Accident 		12. Shift Worked <input type="checkbox"/> 1st <input type="checkbox"/> 2nd <input type="checkbox"/> 3rd <input type="checkbox"/> O/T		13. Date of Accident Month Day Year / /		14. Date Reported Month Day Year / /		15. Number of Others Involved in Accident 	
16. Occupation at Accident Time 			17. Regular Occupation 			18. Number of Others Injured in Accident 			
19. Nature of Injuries (Bruise, Strain, etc.) 					20. Injured Body Part (left index finger) 				
21. Names of Others Involved in Accident 					22. Names of Others Injured in Accident 				
Accident Description and Related Information									
23. Chemicals Involved in Accident 				24. <u>Exact</u> Location of Accident (Sketch on Back) 			25. On JMC Premises? <input type="checkbox"/> Yes <input type="checkbox"/> No		
26. Activity Injured was doing at time of accident or illness (operating backhoe, unloading drums, etc.) --Try to Identify job in three words -- Use no more than 30 spaces									
27. What Occurred (Use single line descriptive sentences to tell the story of what occurred) 									
28. Check Type of Accident (Check one)									
<input type="checkbox"/> a. Struck by <input type="checkbox"/> c. Contacted by <input type="checkbox"/> e. Trapped in <input type="checkbox"/> g. Caught between <input type="checkbox"/> i. Different level fall <input type="checkbox"/> k. Exposure <input type="checkbox"/> b. Struck against <input type="checkbox"/> d. Contact with <input type="checkbox"/> f. Caught on <input type="checkbox"/> h. Same level fall <input type="checkbox"/> j. Strain/overexertion <input type="checkbox"/> l. Other									
29. Accident Agent (Limit to 21 spaces) (i.e., equipment, machine, hand tool) 					30. Contact Agent (Limit to 22 spaces) (i.e., machine part or material contacting) 				
Analysis of Accident Causes									
UNSAFE ACTIONS					UNSAFE CONDITIONS				
31. <u>What</u> did employee do or fail to do that caused or contributed to accident? (Check no more than 2, give details on reverse)					32. <u>What</u> condition of tools, equipment or job site caused or contributed to accident? (Check no more than 2, give details on reverse)				
<input type="checkbox"/> a. Operating without authority <input type="checkbox"/> i. Failure to make inoperative <input type="checkbox"/> b. Failure to make secure <input type="checkbox"/> j. Riding hazardous equipment <input type="checkbox"/> c. Operating unsafe speed <input type="checkbox"/> k. Took unsafe position <input type="checkbox"/> d. Failure to warn/signal <input type="checkbox"/> l. Horseplay, distracting <input type="checkbox"/> e. Nullified safety device <input type="checkbox"/> m. No protective equip. worn <input type="checkbox"/> f. Used defective equipment <input type="checkbox"/> n. Unsafe job procedure <input type="checkbox"/> g. Used equipment unsafely <input type="checkbox"/> o. No unsafe action <input type="checkbox"/> h. Used wrong tool <input type="checkbox"/> p. Other					<input type="checkbox"/> a. Inadequate guard/Safety device <input type="checkbox"/> h. Close clearance/congestion <input type="checkbox"/> b. Hazardous personal attire <input type="checkbox"/> i. Hazardous arrange/storage <input type="checkbox"/> c. Inadequate warning system <input type="checkbox"/> j. Defective tools/equipment <input type="checkbox"/> d. Fire or Explosion hazard <input type="checkbox"/> k. Atmospheric condition <input type="checkbox"/> e. Unsecured against movement <input type="checkbox"/> l. Illumination/noise <input type="checkbox"/> f. Poor housekeeping <input type="checkbox"/> m. Other unsafe condition <input type="checkbox"/> g. Protruding object <input type="checkbox"/> n. No unsafe condition				
33. <u>What</u> caused or influenced unsafe actions you identified above? (Answer only if item 32 applies. Check no more than 2)					34. <u>What</u> caused or influenced unsafe condition you identified above? (Answer only if item 33 applies. Check no more than 2)				
<input type="checkbox"/> a. Unaware of job hazards <input type="checkbox"/> h. Influence of emotions <input type="checkbox"/> b. Inattention to hazard <input type="checkbox"/> i. Influence of fatigue <input type="checkbox"/> c. Unaware of safe method <input type="checkbox"/> j. Influence of intoxicant/drugs <input type="checkbox"/> d. Low level job skill <input type="checkbox"/> k. Defective vision <input type="checkbox"/> e. Tried to gain or save time <input type="checkbox"/> l. Influence of illness <input type="checkbox"/> f. Tried to avoid extra effort <input type="checkbox"/> m. Other personal factors <input type="checkbox"/> g. Tried to avoid discomfort <input type="checkbox"/> n. Unknown personal factors					<input type="checkbox"/> a. Caused by employee <input type="checkbox"/> h. Preventive maintenance failure <input type="checkbox"/> b. Defective from normal use <input type="checkbox"/> i. Defective tools/equipment <input type="checkbox"/> c. Defective via abuse/misuse <input type="checkbox"/> j. Exposure to corrosion <input type="checkbox"/> d. Safety inspection failure <input type="checkbox"/> k. Extreme temperature <input type="checkbox"/> e. Housekeeping/cleaning failure <input type="checkbox"/> l. Caused by other employees <input type="checkbox"/> f. Faulty design/construction <input type="checkbox"/> m. Other source cause <input type="checkbox"/> g. Inadequate illumination <input type="checkbox"/> n. Unknown source cause				
35. What action has been taken (Mark X box) or is planned (Mark P box) to prevent recurrence: (Mark no more than 5)									
X P <input type="checkbox"/> a. Reinstruction of employee <input type="checkbox"/> b. Reprimand/warning of employees involved <input type="checkbox"/> c. Penalty discipline of employee involved <input type="checkbox"/> d. Preventive instruction of others who do job <input type="checkbox"/> e. Job reassignment of employee <input type="checkbox"/> f. Improved inspection procedure <input type="checkbox"/> g. Improved cleanup procedure			X P <input type="checkbox"/> h. Action to improve enforcement <input type="checkbox"/> i. Order JSA done on job <input type="checkbox"/> j. Order JSA revision <input type="checkbox"/> k. Install safety guard against <input type="checkbox"/> l. Require protective equipment <input type="checkbox"/> m. repair/replace equipment <input type="checkbox"/> n. Improve storage/arrangement			X P <input type="checkbox"/> o. Improve design/construction <input type="checkbox"/> p. Eliminate congestion <input type="checkbox"/> q. Use safer Materials/supplies <input type="checkbox"/> r. Improve illumination/ventilation <input type="checkbox"/> s. Mandatory pre-job instructions <input type="checkbox"/> t. Correction other than above <input type="checkbox"/> u. No action required			
36. Immediate Supervisor (Last name first, first initial) 					37. Employee's Signature 				
38. Investigated by (Names and positions) Date					39. Reviewed and approved by (Name and position) Date				

Part 1. Accident Description and Direct Cause Analysis	
1. What Occurred Describe in sequence (1) relevant background information if any, (2) employee's location and position relative to immediate surroundings, (3) how employee was doing job, (4) what occurred that precipitated the accident, (5) the type of accident and contact agent.	
2. Contributing "Unsafe" Action What did the injured (or other person) do or fail to do that contributed directly to accident? Be specific. <i>(Ex., Failed to use protective equipment, Failed to lock out machine)</i> <i>Don't report "Carelessness."</i>	3. Contributing "Unsafe" Condition What defective or otherwise unsafe conditions of tools, equipment, machines, structures or work equipment contributed directly to accident? <i>(Ex., Oil on floor, Broken or missing machine guard, Poor housekeeping)</i>
Part 2. Corrective Action Must Be Taken	
4. Required Corrections What corrective actions will be taken to prevent recurrence of accident? See Reverse Side, Item 35, for basic correction ideas. <i>(Ex., Job Safety Analysis (JSA), Training, Employee counseling, Machine Guarding)</i>	
Part 3. Witnesses	
Part 4. Accident Location Sketch	
<div style="position: absolute; top: 0; right: 0; text-align: center;"> N </div>	
Part 5. Extent and Outcome of Injury/Illness	
Lost Time Case - Date Lost Time Began: ____/____/____ - Date Lost Time Ended: ____/____/____	Restricted Duty Case - Date Restriction Began: ____/____/____ - Date Restriction Ended: ____/____/____ Restrictions: _____
Medical Treatment - Name of Hospital or Clinic: _____ - Name of Physician: _____ Describe Treatment: _____ _____	

JMC ENVIRONMENTAL CONSULTANTS, INC.

DAILY SAFETY MEETING

Date: _____ Job Name: _____

1. Work to be completed: _____

2. Hazards Associated with this work: _____

3. Hazard control measures to be implemented: _____

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: _____

Chemical Hazards: _____

Physical Hazards: _____

Emergency Procedures: _____

ATTENDEES	
<u>NAME PRINTED</u>	<u>SIGNATURE</u>
_____	_____
_____	_____
_____	_____
_____	_____

Meeting Conducted by: _____
NAME PRINTED **SIGNATURE**

Supervisor _____

JMC ENVIRONMENTAL CONSULTANTS, INC.

RESPIRATOR FIT TESTING & INSPECTION

NAME _____ EMPLOYEE NO. _____ DATE _____

TITLE _____ SERVICE CENTER _____

TEST/HOOD ENCLOSURE USED: _____ YES _____ NO

IRRITANT SMOKE FIT TESTING (Do Not Use an Enclosure):

<u>No. of Squeezes</u>	<u>Activity</u>	<u>Reaction</u>	
_____	Initial	____ Yes	____ No
_____	Head/Neck Motion	____ Yes	____ No
_____	Motion/Talking	____ Yes	____ No
_____	Motion/Deep Breathing	____ Yes	____ No
_____	Total Squeezes		
Seal Obtained _____	Type of Cartridge used	_____	
	Type of respirator	_____	
	Size of respirator	_____	

RESPIRATOR INSPECTION:

Head Straps	<u>ok / not ok</u>	Inhalation valves/stems/bodies	<u>ok / not ok</u>
Face to Mask Sealing Surface	<u>ok / not ok</u>	Canister holder gasket/ threads	<u>ok / not ok</u>
Exhalation valves/cover/stems/bodies	<u>ok / not ok</u>	Lens	<u>ok / not ok</u>

Action Taken to Correct Deficiencies: _____

Fit Test/ Inspection performed by: _____ Date _____

Employee signature: _____ Date _____

JMC ENVIRONMENTAL CONSULTANTS, INC.

Daily Safety Report

Project: ARSYNCO, INC. PROPERTY		
Contract No.:	JMC Project No.: 22126	Date:
SHSO: Alton Hallgreen	RM: Thomas Adams	Supervisor: James Clabby
Site Conditions (weather, temp., soil conditions, etc.): _____		

Task/ Personnel/ PPE Matrix		
Task/Area	Personnel	PPE Level

Corrective Actions	
Unsafe Act/ Condition	Corrective Action

Signature: _____
Date: _____
SHSO
Attachments: ! Air Surveillance Log ! Accident Report ! Daily Safety Meeting ! Other ! None

JMC ENVIRONMENTAL CONSULTANTS, INC.

H&S Plan Change Authorization

Project Name: **ARSYNCO, INC.**

Date: _____

Project Number: 22126

Description of Change:

Reason for Change:

Person requesting Change:

Signature

Date

Approved By
(JMC Health and Safety Director)

Signature

Date

Attach sheets if necessary

Health and Safety Plan Sign-off

By signing below, I am indicating that I have read and agree to comply with the contents of the Site Specific Health and Safety Plan prepared for the Site.

[illegible]

JMC ENVIRONMENTAL CONSULTANTS, INC.

Air Monitoring Log

Project Site:	Project No.	Date:
ARSYNCO, INC.	22126	

Level of Protection:	<u>Description of Site (e.g. weather, temp., soil conditions):</u>

Instrument:	Instrument Response:	Location:	Time:	Comments:

Calibration Data (e.g. type & gas concentration, instrument adjustments if any):

Additional Notes:

Signature: _____ Date: _____
(Health and Safety Officer)

ATTACHMENT B

Material Safety Data Sheets

(For Hazardous Chemicals Brought on Site by JMC and Subcontractors as listed here.)

[illegible]

ATTACHMENT C

Excavation Safety

CONTENTS

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1.0 **PURPOSE**

To establish safe operating procedures for the conduct of excavations

2.0 **SCOPE**

The Excavation Safety SOP applies to excavations which JMC employees and its subcontractors must enter and excavations that JMC creates to which the public or other employer's employees may be exposed to.

3.0 **DEFINITIONS**

Competent Person - one who is capable of identifying existing and predictable hazards in the surroundings, or working conditions which are unsanitary, hazardous, or dangerous to employees and has the authorization to take prompt corrective measures to eliminate them.

Cross-brace - horizontal member of shoring system installed perpendicular to the sides of the excavation, the ends of which bear against either uprights or wales.

Excavation - any man-made cut, cavity, trench, or depression in an earth surface, formed by earth removal

Face - vertical or inclined earth surfaces formed as a result of excavation work.

Registered Professional Engineer (PE) - for the purposes of this SOP, registered engineer means an individual who is registered in any state as a professional engineer. A PE's review and approval is required when approving designs for "manufactured protective systems," and "tabulated data."

Shoring - a structure that supports the sides of an excavation and is designed to prevent cave-ins.

Sheeting - vertical members of a shoring system that are in contact with and retain the earth in position and in turn are supported by other members of the shoring system.

Shielding - a structure that is able to withstand the forces imposed on it by a cave-in and protect employees within the structure. Shields can be designed to be portable and moved along as work progresses or they can be designed as permanent. Trench boxes are common shield devices.

Soil Types - as defined by 29 CFR 1926

Type A - Cohesive Soils with an Unconfined Compressive Strength (UCS) of 1.5 tons/square foot (tsf). Examples of cohesive soils:

Clay
Silty Clay
Sandy Clay
Clay Loam
Cement Soil i.e. Hardpan

No soil is Type A if:

The soil is fissured;
The soil is subject to vibration from heavy traffic, pile driving, or similar effects;
The soil has been previously disturbed; or,
The soil is part of a sloped, layered system where the layers dip into the excavation on a slope of 4H:1V or greater

Type B - Cohesive Soils with a UCS of > 0.5 tons/square foot or

Granular Cohesionless Soils including:
Angular Gravel
Silt
Silt Loam
Sandy Loam

Previously disturbed soils except those that would otherwise be classified as Type C

Soil that meets the UCS requirements for Type A but is fissured or subject to vibration

Dry rock that is not stable

Material that is part of a sloped, layered system where the layers dip into the excavation on a slope less steep than 4H:1V but only if the material would otherwise be classified as Type B.

Type C - Cohesive Soils with an UCS of ≤ 0.5 tons/square foot or

Granular Soils i.e. gravel, sand, and loamy sand
Submerged Soil or Soil from which Water is freely seeping

Submerged Rock that is not stable
Material in a Layered Systems where the layers dip into the excavation on a slope of 4H:1V or steeper

Upright - vertical member of a shoring system placed in contact with the earth and usually positioned so that individual members do not touch each other. Uprights placed so that individual members are closely spaced, in contact with each other or are interconnected are often called sheeting.

Wales - horizontal members of a shoring system placed parallel to the excavation face whose sides bear against the vertical members of the shoring system or earth.

4.0 RESPONSIBILITIES

In addition to responsibilities outlined in the JMC Corporate Health and Safety Manual and Site Specific Health and Safety Plan, excavation work imparts these additional responsibilities.

Project Management - is responsible for directing excavation activities in accordance with this SOP, providing necessary people, equipment and materials and obtaining necessary permits, utility clearances and approvals.

Site Health and Safety Officer - is the designated *competent person* on a JMC site, responsible for daily inspections of excavation work and having employees removed from excavations which are unsafe. In the absence of a SHSO, the project manager will serve as or will designate a *competent person* having the qualifications listed above.

5.0 PROCEDURE

5.1 *Hazard Recognition* - accident types which result from improper excavation work include trapped in a cave-in, falls to a different level, struck by objects falling into an excavation, contact with underground/ overhead utilities, and exposure to hazardous materials and atmospheres.

5.2 Hazard Controls

5.2.1 *Training* - JMC field employees (project managers, site supervisors, site health and safety officers, heavy equipment operators and technicians) will receive instruction in excavation safety which will enable

them to recognize unsafe excavations and the control measures necessary to make an excavation safe for entry and safe to work around.

5.2.2 Sloping - protection of employees in excavations greater than or equal to five feet in depth may be accomplished by sloping the faces of an excavation in accordance with one of the following four options:

Default Slope 1.5:1 (H:V) - Simple excavations (no vertical sided lower portion) twenty feet deep or less may be sloped at an angle of 1.5:1. Excavations 20 feet deep or less with vertical sided lower portions will be shielded to a height at least 18 inches above the top of the vertical sides.

Sloping Based on Soil Type - Excavations may be sloped in accordance with soil classifications. Type A soils - 3/4:1, Type B soils - 1:1 and Type C soils - 1.5:1. Special considerations apply to layered soil deposits. Soil classifications must be made using at least one visual and one manual soil classification method. Criteria for each soil type and a description of soil classification methods are described in Appendix A of OSHA's excavation standard and is available from the JMC Health and Safety Director.

Alternative Soil Classification and Sloping Systems - Alternative soil classification and sloping systems may be developed. The JMC Corporate Health and Safety Director and a PE must approve them.

Site Specific Sloping and Benching Systems - Site specific benching and sloping designs may be developed in place of the alternatives listed above. The JMC Corporate Health and Safety Director and a PE must approve the design.

5.2.3 Shoring/ Shielding - protection of employees in excavations greater than or equal to five feet in depth may be accomplished by shoring or shielding techniques. Shoring systems are designed to prevent cave-ins and shielding systems are designed to protect people within an excavation should a failure occur. Options for the protection of employees in excavations are:

- systems (timber shoring or aluminum hydraulic shoring) designed in accordance with Appendices A C & D of 29 CFR 1926 Subpart P for excavations less than or equal to 20 feet deep. (no PE approval required);
- aluminum hydraulic shoring used in accordance with the manufacturer's instructions;
- trench boxes used in accordance with the manufacture's instructions; and,
- other systems approved by the JMC Corporate Health and Safety Director and a PE.

5.2.4 Utility Surveys -The location of utilities will be determined prior to the start of an excavation. Utility companies and owners will be advised of excavation activities and asked to locate underground utilities in the vicinity of the excavation.

5.2.5 Access and Egress - Stairways, ladders, or ramps will be placed so as to require no more than 25 feet of lateral travel for employees. Soil ramps must be at a slope which allows for upright walking into and out of the excavation.

5.2.6 Fall Protection - Employees will be protected against materials falling into an excavation in which they are working and protected from falling into excavations.

- employees will not be allowed to work underneath loads handled by a lifting or excavating equipment
- employees must maintain safe distances from trucks being loaded with soil to avoid being stuck by spillage
- when equipment is required to approach the edge of an excavation and the operator does not have a clear unobstructed view of the excavation edge, a warning system such as barricades, hand signals or stop logs. When possible the grade of the equipment's approach should be away from the excavation.
- employees will be protected from loose rock and soil rolling into the excavation by scaling, or barricades. Excavated soils and other materials will be staged no closer than 2 feet from the edge of the excavation.

5.2.7 Stability of Adjacent Structures - When the stability of a structure adjacent to an excavation is endangered, shoring, bracing, or underpinning will be used to ensure the stability of the structure for the protection of employees. Excavation below the level of the base or footing of a structure which may pose a hazard to employees is permitted only when:

- a support system is provided to ensure the safety of employees;
- a PE has approved the determination that the structure is far enough away from the excavation so as to be unaffected; or,
- a PE approves the determination that the excavation work does not pose a hazard to employees.

5.2.8 Daily Inspections - A competent person will conduct daily inspections of excavations, adjacent areas and protective systems for evidence of a situation that could result in possible cave-ins, failure of a protective system, and hazardous atmospheres. Inspections will be conducted prior to the start of work in and around the excavation and as required throughout a shift. Inspections will be made after every

rainstorm and any other incident which potentially decreases the degree of safety with which the excavation may be entered.

When a condition is discovered during an inspection which could result in a possible cave-in, protective system failure or development of a hazardous atmosphere, exposed employees will be removed from the hazardous area until the problem is corrected.

5.2.9 Application of HAZWOPER SOP's - Excavations conducted on JMC sites covered under OSHA's Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) are subject to 29 CFR 1910.120.

5.2.10 Application of Confined Space Entry SOP - Excavations which may pose hazards associated with confined space entry (e.g. hazardous atmospheres) will be subject to the JMC Standard Operating Procedure for Confined Space Entry.

5.2.11 Minimum Clearance from Energized Overhead Electric Lines - operations adjacent to overhead lines are prohibited unless at least one of the following conditions is satisfied:

- power has been shut off and positive means taken to prevent the lines from being energized; or,
- equipment or any part, does not have the capability of coming within the minimum clearance from the energized overhead lines as specified below.

System Voltage	Minimum Required Clearance
0 -50 kV	10 ft.
51 - 100 kV	12 ft.
101- 200 kV	15 ft.
201 - 300 kV	20 ft.
301- 500 kV	25 ft.
501 - 750 kV	35 ft.
751 - 1000 kV	45 ft.

6.0 **REFERENCES**

29 CFR 1926 Subpart P

7.0 ATTACHMENTS

None

8.0 RECORD KEEPING

Inspections
Employee training events

9.0 EQUIPMENT

See SOP contents

JMC ENVIRONMENTAL CONSULTANTS, INC.
EXCAVATION CHECKLIST

(To be completed by a "Competent Person" prior to personnel entry into an excavation ≥ 5 ft. deep, each day and after rain events before entry)

SITE LOCATION: 511 13th Street, Carlstadt, NJ		
DATE:	TIME:	COMPETENT PERSON:
SOIL TYPE (See attached form):		
SOIL CLASSIFICATION:	EXCAVATION DEPTH:	EXCAVATION WIDTH:
TYPE OF PROTECTIVE SYSTEM USED:		

(Indicate for each of the following items: YES, NO, or N/A for not applicable)

1. General Inspection of Jobsite:	
A. Excavations, adjacent areas, and protective systems inspected by a competent person daily prior to the start of work.	
B. Competent person has the authority to remove employees from the excavation immediately.	
C. Surface encumbrances removed or supported.	
D. Employees protected from loose rock or soil that could pose a hazard by falling or rolling into the excavation.	
E. Hard hats worn by all employees.	
F. Spoils, materials, and equipment set back at least 2 feet from the edge of the excavation.	
G. Barriers provided at remotely located excavations, wells, pits, shafts, etc.	
H. Walkways and bridges over excavations 4 feet or more in depth are equipped with standard guardrails and toeboards.	
I. Warning vests or other highly visible clothing provided and worn by employees exposed to public vehicular traffic.	
J. Employees required to stand away from vehicles being loaded or unloaded.	
K. Warning system established and utilized when mobile equipment is operating near the edge of the excavation.	
L. Employees prohibited from going under suspended loads.	
M. Employees prohibited from working on the faces of sloped or benched excavations above other employees.	
2. Utilities:	
A. Utility companies contacted and/or utilities located.	
B. Exact location of utilities marked.	
C. Underground installations protected, supported, or removed when excavation is open.	

Excavation Checklist (Continued)

3. Means of Egress:	
A. Lateral travel to means of egress no greater than 25 ft. in excavations, 4 ft. or more in depth.	
B. Ladders used in excavations secured and extended 3 ft. above the edge of the trench.	
C. Structural ramps used by employees designed by a competent person.	
D. Structural ramps used for equipment designed by a registered professional engineer.	
E. Employees protected from cave-ins when entering or exiting the excavation.	
4. Wet Conditions:	
A. Precautions taken to protect employees from the accumulation of water.	
B. Water removal equipment monitored by a competent person	
C. Surface water run-off diverted or controlled to prevent accumulation in the excavation.	
D. Inspections made after every rainstorm or other hazard increasing occurrence prior to re-entry.	
5. Hazardous Atmosphere:	
A. Atmosphere within the excavation tested where there is a reasonable possibility of an oxygen deficiency, combustible, or other harmful contaminant exposing employees to a hazard.	
B. Adequate precautions taken to protect employees from exposure to an atmosphere containing less than 19.5% oxygen and/ or to other hazardous atmospheres.	
C. Ventilation provided to prevent employee exposure to an atmosphere containing flammable gas in excess of 10% of the lower explosive limit of the gas.	
D. Testing conducted often to ensure that the atmosphere remains safe.	
E. Emergency equipment, such as breathing apparatus, safety harness and lifeline, and/ or basket stretcher readily available where hazardous atmospheres could or do exist.	
F. Employees trained to use personal protective equipment and other rescue equipment.	
G. Safety harness and lifeline used and individually attended when entering bell bottom or other deep confined excavations.	

Excavation Checklist (Continued)

6. Support Systems	
A. Materials and/ or equipment for support systems selected based on soils analysis, trench depth, and expected loads.	
B. Materials and equipment used for protective systems inspected and in good condition.	
C. Materials and equipment not in good condition have been removed from service.	
D. Damaged materials and equipment used for protective systems inspected by a registered professional engineer (RPE) after repairs and before being placed back into service.	
E. Protective systems installed without exposing employees to the hazards of cave-ins, collapses.	
F. Members of support system securely fastened to prevent failure.	
G. Support systems provided to insure stability of adjacent structures, buildings, roadways.	
H. Excavation below the level of the base or footing supported, approved by an RPE	
I. Removal of support systems progresses from the bottom and members are released slowly as to note any indication of possible failure.	
J. Backfilling progresses with removal of support system.	
K. Excavation of material to a level no greater than 2 feet below the bottom of the support system and only if the system is designed to support loads calculated for full depth.	
L. Shield system placed to prevent lateral movement.	
M. Employees are prohibited from remaining in shield system during vertical movement.	

CORRECTIVE ACTION AND REMARKS:

JMC ENVIRONMENTAL CONSULTANTS, INC.
SOILS ANALYSIS CHECKLIST

This checklist must be completed when soil analysis is made to determine the soil type(s) present in the excavation. A separate analysis must be performed if the excavation (trench) is stretched over a distance where soil type changes.

SITE LOCATION: 511 13th Street, Carlstadt, NJ		
DATE:	TIME:	COMPETENT PERSON:
WHERE WAS THE SAMPLE TAKEN FROM:		
EXCAVATION DEPTH:	EXCAVATION WIDTH:	EXCAVATION LENGTH:
<u>VISUAL TEST</u>		
Particle type: Fine grained (cohesive) _____ Granular (sand/silt or gravel) _____		
Water conditions:	Wet _____	Dry _____ Seeping Water _____
	Surface water present _____ Submerged _____	
Previously disturbed soils: Yes _____ No _____		
Underground utilities: Yes _____ If yes, what type?		
No _____		
Layered soils? Note: The less stable layer controls soil type. Yes _____ No _____		
Layered soils dipping into excavation: Yes _____ No _____ Unknown _____		
Excavation exposed to vibrations: Yes _____ No _____		
If yes, from what?		
Crack like openings or spalling observed: Yes _____ No _____		
Conditions that may create a hazardous atmosphere: Yes _____ No _____		
If yes, identify condition and source:		
Surface encumbrances: Yes _____ No _____ If yes, what type?		
Work to be performed near public vehicular traffic: Yes _____ No _____		
Possible confined space exposure: Yes _____ No _____		
<u>MANUAL TEST</u>		
Plasticity: Cohesive _____ Non-cohesive _____		
Dry strength: Granular (crumbles easily) _____ Cohesive (broken with difficulty) _____		
Wet shake: Water comes to surface (granular material) _____ Surface remains dry (clay material) _____		

SOILS ANALYSIS CHECKLIST (CONTINUED)

NOTE: The following unconfined compressive strength tests should be performed on undisturbed soils.

Thumb Test used to estimate unconfined compressive strength of cohesive soil:

Test performed: Yes _____	No _____
_____ Type A - soil indented by thumb with very great effort.	
_____ Type B - soil indented by thumb with some effort.	
_____ Type C - Soil easily penetrated several inches by thumb with little or no effort. If soil is submerged, seeping water, subjected to surface water, runoff, exposed to wetting.	

Penetrometer or Shearvane used to estimate unconfined compressive strength of cohesive soils:

Test performed: Yes _____	No _____	Device used: _____
_____ Type A - soil with unconfined compressive strength of 1.5 tsf or greater.		
_____ Type B - soil with unconfined compressive strength greater than 0.5 tsf and less than 1.5 tsf.		
_____ Type C - soil with unconfined compressive strength of 0.5 tsf or less. If soil is submerged, seeping water, subjected to surface water, runoff, exposed to wetting.		

NOTE: Type A - no soil type A if soil is fissured, subject to vibration, previously disturbed, layered dipping into excavation on a slope of 4H:1V.

SOIL CLASSIFICATION			
Stable Rock _____	Type A _____	Type B _____	Type C _____
SELECTION OF PROTECTIVE SYSTEM			
Protective System: _____	Sloping (max. 20 ft. deep) _____	Specify angle _____	
_____ Timber shoring			
_____ Aluminum hydraulic shoring			
_____ Trench shield Maximum depth in this soil _____			

NOTE: Although OSHA will accept the above tests in most cases, some states will not. Check your state safety requirements for trenching regulations.

JMC ENVIRONMENTAL CONSULTANTS, INC.
DAILY TRENCHING LOG

DATE:	SIGNATURE:
WEATHER:	PROJECT:
Was One Call System contacted?	Yes _____ No _____
Protective system: Trench shield (box) _____ Sloping _____	Wood shoring _____ Other _____
Purpose of trenching: Drainage _____ Sewer _____ Other _____	Water _____ Gas _____
Were visual soil tests made? Yes _____ If yes, what type:	No _____
Were manual soil tests made? Yes _____ If yes, what type?	No _____
Type of soil: Stable Rock _____ Type A _____	Type B _____ Type C _____
Surface encumbrances? Yes _____ If yes, what type?	No _____
Water conditions: Wet _____ Dry _____	Submerged _____
Hazardous atmosphere exists? Yes _____ No _____ (If yes, follow confined space entry procedures policy, complete Confined Space Entry Permit, monitor for toxic gas(s))	
Is trenching or excavation exposed to public vehicular traffic (exhaust emission)? Yes _____ No _____ (If yes, follow confined space entry procedures policy, complete Confined Space Entry Permit, monitor for toxic gas(s))	
Measurements of trench: Depth _____	Length _____ Width _____
Is ladder within 25 feet of all workers? Yes _____ No _____	
Is excavated material stored 2 feet or more from edge of excavation? Yes _____ No _____	
Are employees exposed to public vehicular traffic? (If yes, warning vests required)	Yes _____ No _____
Are other utilities protected: (Water, sewer, gas or other structures)	Yes _____ No _____
Are sewer or natural gas lines exposed? Yes _____ No _____ (If yes, refer to confined space entry procedures policy, complete Confined Space Entry permit, monitor for toxic gas(s))	
Periodic inspection: Yes _____ No _____	Last (date) _____
Did employees receive training in excavating?	Yes _____ No _____

ATTACHMENT D

JMC SOP “Heat Stress”

CONTENTS

1.0 PURPOSE

2.0 SCOPE

3.0 DEFINITIONS

4.0 RESPONSIBILITIES

5.0 PROCEDURE

6.0 REFERENCES

7.0 ATTACHMENTS

8.0 EQUIPMENT

1.0 **PURPOSE**

The Heat Stress Management SOP is intended to describe measures which will reduce the probability of workers experiencing a heat related disorder.

2.0 **SCOPE**

The Heat Stress Management SOP is applicable to all JMC project sites. Its implementation is mandatory when workers wearing impermeable personal protective equipment are exposed to ambient air temperatures above 70°F.

3.0 **DEFINITIONS**

Stress can contribute significantly to accidents or harm workers in other ways.

The term "stress" denotes the physical (gravity, mechanical force, heat, cold, pathogens, injury) and psychological (fear, anxiety, crises, joy) forces that are experienced by individuals.

The body's response to stress occurs in three stages:

- a. Alarm Reaction - The body recognizes the stress and the pituitary-adreno-cortical system responds by increasing the heart rate and blood sugar level, decreasing digestive activity and dilating the pupils.
- b. Adaptive Stage - The body repairs the effect of stimulation and stress symptoms disappear.
- c. Exhaustion Stage - The body can no longer adapt to stress and the individual may develop emotional disturbances and cardiovascular and renal diseases.

The most common types of stress that affect remediation personnel are heat stress and cold stress. Heat and cold stress can be the most serious hazards an employee encounters at hazardous waste sites.

Heat Stress usually is a result of protective clothing decreasing natural body ventilation, although it may occur at any time work is being performed at elevated temperatures.

If the body's physiological processes fail to maintain a normal body temperature because of excessive heat, a number of physical reactions can occur ranging from mild (such as fatigue, irritability, anxiety, and decreased concentration, dexterity, or movement) to fatal. Because heat stress is one of the most common and potentially serious illnesses at hazardous waste sites, regular monitoring and other preventative measures are vital.

Site workers must learn to recognize and treat various forms of heat stress.

4.0 RESPONSIBILITIES

The Project Manager/ Supervisor is responsible for directing work in accordance with this procedure when implementation conditions are met. The PM is also responsible for providing resources necessary for implementation of the procedure.

The Site Health and Safety Officer is responsible for monitoring and facilitating employee compliance with the procedure. The SHSO is responsible for instructing employees in the recognition and control of heat related illnesses.

5.0 PROCEDURE

5.1 Symptom Recognition and Treatment

A large portion of heat stress control lies in the ability of an individual to recognize heat stress symptoms in themselves and co-workers. Early recognition and treatment of heat stress symptoms can prevent the development of more serious, debilitating and even life threatening conditions.

5.1.1 Heat Stroke

Heat stroke is an acute and dangerous reaction to heat stress caused by a failure of the heat regulating mechanisms of the body. The individual's temperature control system that causes sweating stops working correctly. Body temperature rises so high that brain damage and death will result if the person is not cooled quickly. Heat stroke requires medical attention.

- a. Symptoms - Red, hot dry skin, although person may have been sweating earlier. Nausea, dizziness, confusion, extremely high body temperature, rapid respiratory and pulse rate, convulsions, unconsciousness, or coma.
- b. Treatment - Cool the victim quickly. If the body temperature is not brought down fast, permanent brain damage or death will result. Soak the victim in cool, but not cold, water; sponge the body with cool water; or pour water on the body to reduce the temperature to a safe level (102°F). Observe the victim and obtain medical help. Do not give coffee, tea, or alcoholic beverages. Do give fluids by mouth if victim is in and out of consciousness

5.1.2 Heat Exhaustion

Heat exhaustion is a state of very definite weakness or exhaustion caused by the loss of fluids from the body. This condition is much less dangerous than heat stroke, but it nonetheless must be treated.

- a. Symptoms - Pale, clammy moist skin, profuse perspiration and extreme weakness. Body temperature is normal, pulse is weak and rapid, breathing is shallow. The person may have a headache, may vomit, and may be dizzy.
- b. Treatment - Remove the person to a cool, air-conditioned place, loosen clothing, place in a head-low position, and provide bed rest. Consult a physician, especially in severe cases. The normal thirst mechanism is not sensitive enough to ensure body fluid replacement. Have the patient drink one to two cups of water immediately and every 20 minutes thereafter until symptoms subside. Total water consumption should be about one to two gallons per day.

5.1.3 Heat Cramps

Heat cramps are caused by perspiration that is not balanced by adequate fluid intake. Heat cramps are often the first sign of a condition that can lead to heat stroke.

- a. Symptoms - Acute painful spasms of voluntary muscles: e.g., abdomen and extremities.
- b. Treatment - Remove the victim to a cool area and loosen clothing. Have the patient drink one to two cups of water immediately and every 20 minutes thereafter until the symptoms subside. Total water consumption should be one to two gallons per day. Consult your physician.

5.1.4 Heat Rash

Heat rash is caused by continuous exposure to heat and humid air and is aggravated by chafing cloths. The condition decreases the ability to tolerate heat.

- a. Symptoms - Mild red rash, especially in areas of body in contact with protective gear.
- b. Treatment - Decrease the amount of time in protective gear and provide powder to help absorb moisture and decrease chafing.

5.2 Heat Stress Prevention Measures

What follows is a list of heat stress prevention measures which reduce the risk of an employee experiencing a heat related disorder. They are in no particular order. Successful heat stress prevention will require the implementation of all the control measures listed to varying degrees. No single control measure will prove to be either effective or efficient for a given project site.

5.2.1 Fluid Replacement

Have workers drink 16 ounces of water before beginning work, such as in the morning or after lunch. Provide disposable, four ounce cups and water that is maintained at 50 to 60°F. Urge

workers to drink one to two gallons per day. To assist employees track their own fluid replacement, provide individual water coolers/ containers, fill the containers each day, and check consumption at the end of the day. The use of paper cups and a single cooler for the entire job site are difficult for both supervisors and employees to track. Provide cool, preferably air-conditioned, area for rest breaks. Discourage the use of alcohol in nonworking hours and discourage the intake of coffee during working hours. Monitor for signs of heat stress.

Use of electrolyte containing fluids (e.g., Gatorade) is more important for unacclimatized workers than acclimatized workers.

5.2.2 Acclimate Crew Members

Acclimatization is the process by which the body adapts to heat stress. Changes include increased sweating efficiency (earlier onset of sweating, increased sweat production, lower electrolyte loss) and stabilized blood circulation (less likelihood of blackout, dizziness, spots, etc.) It occurs with brief (~100 minutes) daily exposures to heat in 5 -7 days. Benefits of acclimatization are typically lost with no heat exposure for a week or more.

5.2.3 Reduce Heat Load (both environmental and metabolic)

Provide cooling devices to aid body cooling (i.e., Cool Vests). These devices, however, add weight, and their use should be balanced against worker efficiency.

Evaporative cooling is aided by clothing which wicks away perspiration from the skin. Long cotton underwear acts as a wick to help absorb moisture and protect the skin from direct contact with heat-absorbing protective clothing. However, long cotton underwear is of no use and can aggravate heat stress symptoms once it becomes soaked with perspiration.

Install mobile showers and/or hose-down facilities to reduce body temperature and cool protective clothing.

In hot weather, conduct field activities in the early morning or evening.

Reduce metabolic heat load by designing tasks such that employee exertion is kept to a minimum

Reduce environmental heat loads by reducing radiant heat exposure (sunshine). Working in shaded areas and taking breaks in shaded areas will reduce heat loads due to radiant heat.

5.2.4 Employee Rotation

In hot weather, rotate shifts of workers wearing impervious clothing. On project sites with large crews, stagger heat stress breaks so that tasks are not completely shut down. On sites with small crew sizes this may not be possible due to the “buddy system” rule.

5.2.5 Dry Clothing and Personal Hygiene

Good hygienic standards must be maintained by frequent changes of clothing and showering. Clothing should be permitted to dry during rest periods. Persons who notice skin problems should immediately consult medical personnel.

5.2.6 Avoid Diuretics and Stimulants

Avoid consuming alcoholic beverages which cause loss of body fluid water by urination. Avoid consumption of stimulants such as some cold medicines, caffeine and ephedrine which increase heart rates.

5.2.7 Heat Stress Monitoring and Work/ Rest Cycle Management

For strenuous field activities that are part of on-going work activities in hot weather, the following procedures shall be used to monitor the body's physiological response to heat and to manage the work/ rest cycle. These procedures are to be instituted when ambient temperatures exceed 70°F and employees are wearing impervious (i.e., does not allow perspiration to evaporate) clothing (e.g., Tyvek, Saranex, PE Coated Tyvek, etc., coveralls).

- a. Measure Heart Rate (HR) - The heart rate should be measured by the radial pulse at the wrist for 30 seconds as early as possible in the resting period. The HR at the beginning of the rest period should not exceed 110 beats per minute. If the HR is higher, the next work period should be shortened by 33%, while the length of the rest period stays the same. If the pulse rate still exceeds 110 beats per minute at the beginning of the next rest period, the following work cycle should be further shortened by 33%. The procedure is continued until the rate is maintained below 110 beats per minute.
- b. Measure Body Temperature - Body temperature should be measured orally or aurally by a clinical thermometer as early as possible in the resting period. The temperature (OT) at the beginning of the rest period should not exceed 99.6°F, if it does, the next work period should be shortened by 33% while the length of the rest period stays the same. If the OT exceeds 99.6°F at the beginning of the next period, the following work cycle should be further shortened by 33%. The procedure is continued until the body temperature is maintained below 99.6°F. Consuming fluids immediately prior to temperature measurement will give false, low readings. No one will continue to be exposed to hot conditions with an oral/ aural temperature in excess of 100.6°F.
- c. Rest Areas - Rest areas should be air conditioned if possible. The heart rates of workers who recover in air conditioned areas will be reduced faster and to lower rates than those that recover in non-air conditioned areas.
- d. Manage Work/Rest Schedule - The following work/rest schedule shall be used as a guideline:

<u>Adjusted Temperature (°F)</u>	<u>Active Work Time Using Impermeable Protective Gear</u>
75 or less	50
80	40
85	30
90	20
95	10
100	0

To calculate the adjusted temperature:

$T(\text{adjusted}) = T(\text{actual}) + (13 \times \text{fraction sunshine})$

Measure the air temperature with a standard thermometer. Estimate the fraction of sunshine by judging what percent the sun is out: 100% sunshine = no cloud cover = 1.0, 50% sunshine = 50% cloud cover = 0.5, and 0% sunshine = full cloud cover = 0.0.

Reduce or increase the work cycle according to the guidelines under heart rate and body temperature.

6.0 REFERENCES

- Occupational Safety and Health and Guidance Manual for Hazardous Waste Site Activities
- Patty's Industrial Hygiene and Toxicology, Fourth Edition
- OSHA Web Site <http://www.osha-slc.gov/SLTC/heatstress/index.html>

7.0 ATTACHMENTS

None

8.0 EQUIPMENT

- Oral thermometers and hygienic slip covers or aural thermometers with hygienic slip covers
- Thermometer to measure air temperature
- Cool water and/ or electrolyte containing fluids (e.g., Gatorade)
- Ice cooled vests
- Materials to create shaded work areas

APPENDIX F

AIR MONITORING PLAN

AIR MONITORING PLAN

**ARSYNCO, INC. PROPERTY
511 13th Street
Carlstadt Borough, Bergen County, NJ**

Prepared by:

**JMC ENVIRONMENTAL CONSULTANTS, INC.
2109 Bridge Ave., Bldg. B
Point Pleasant, New Jersey 08742**

July 2015

1.0 INTRODUCTION

Arsynco, Inc. (Arsynco) is preparing to conduct a remedial action at their site located at 511 13th Street in Carlstadt Borough, Bergen County, New Jersey. Implementation of the remedial action will involve the excavation and removal of soil containing polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs) and metals. The primary contaminants of concerns are provided on the table at the end of this Air Monitoring Plan (AMP).

The AMP described below has been developed for the Arsynco Site and incorporates activities being conducted at this location under the EPA TSCA PCB Cleanup Approval. The AMP addresses two critical aspects of the work to be performed: 1) actual work zone safety (i.e.-worker health and safety) and 2) identifying and documenting potential releases into the surrounding community.

The Arsynco property, known as Block 91, Lot 1, contains approximately 12.3 acres of industrial zoned land. Arsynco has owned the property since 1969 and operations were conducted at the site by Arsynco from 1969 until 1993. The property had also been owned and operated by a number of chemical manufacturing companies dating back to the early 1900s. Operations were ceased at the property in 1993. The property currently contains one vacant building. The subject site is surrounded by industrial zoned properties and commercial zoned properties are located further west.

2.0 MONITORING ACTIVITIES

2.1 WORK ZONE AIR MONITORING

Work zone air monitoring for worker health and safety will be performed continuously during ground intrusive activities. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and portions of the restoration program. The monitoring results within this zone will be utilized by the on-site health and safety personnel responsible for insuring that proper personal protective equipment (PPE) is used during such activities. This information will also be evaluated in order to take corrective measures to minimize potential fugitive emissions.

2.2 PERIMETER AIR MONITORING

Perimeter air monitoring (PAM) will consist of obtaining monitoring data from a circular path extending approximately 75-feet from the active area of excavation. In situations where the property border is less than 75 feet from the area of soil disturbance, monitoring data will be obtained along the adjacent property fence line, with the

emphasis being in the downwind direction. During each monitoring event, the technician will log the time, wind direction and activities underway. PAM will also be conducted during non-intrusive activities such as during soil relocation activities.

2.3 VOC MONITORING, RESPONSE LEVELS AND ACTIONS

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e. - the exclusion zone) on a continuous basis during work in that area. Upwind concentrations beyond the work zone will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be monitored using a photo-ionization detector (PID). A PID is an air monitoring instrument which provides fast and accurate readings of organic vapors. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.

If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After taking corrective action, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

If the organic vapor level is above 25 ppm at the perimeter of the work area activities will be stopped until it is determined that it is safe to restart.

The 15-minute readings will be recorded and be available for JMC personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

2.4 PARTICULATE MONITORING, RESPONSE AND ACTIONS

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using DataRam or equivalent real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. A DataRam is a real-time air

monitoring instrument which collects instantaneous dust particulates and averages the amount of dust particles over a selected timeframe. This instrument is utilized to determine whether dust suppression measures are necessary. In addition, fugitive dust migration will be visually assessed during work activities.

If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed $150 \text{ mcg}/\text{m}^3$ above the upwind level and provided that no visible dust is migrating from the work area.

If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than $150 \text{ mcg}/\text{m}^3$ above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within $150 \text{ mcg}/\text{m}^3$ of the upwind level and in preventing visible dust migration.

APPENDIX G

QUALITY ASSURANCE PROJECT PLAN

QUALITY ASSURANCE PROJECT PLAN

**ARSYNCO, INC. PROPERTY
511 13th Street
Carlstadt Borough, Bergen County, NJ**

Prepared by:

**JMC ENVIRONMENTAL CONSULTANTS, INC.
2109 Bridge Avenue
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July 2015

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ATTACHMENTS

- 1 Field Standard Operating Procedures
- 2 Laboratory Quality Assurance Plan

1.0 INTRODUCTION

Arsynco, Inc. has retained JMC Environmental Consultants, Inc. (JMC) to prepare this Quality Assurance Project Plan (QAPP) for the Arsynco, Inc. property located at 511 13th Street in the Borough of Carlstadt, Bergen County, New Jersey. The objective of the QAPP program is to ensure that all sampling, sampling data and reporting meet the project objectives.

This QAPP is included as Appendix C of the Engineering and Monitoring Plan (E&M Plan) prepared for the implementation of the Risk-Based PCB Disposal/Cleanup work being conducted at the Arsynco site in accordance with the Arsynco Application that was formally approved by EPA and became effective on July 21, 2009 (the "EPA Approval"). All project activities will be completed in accordance with this QAPP, appropriate parts of the United States Environmental Protection Agency's (USEPA's) Title 40 of the Code of Federal Regulations (CFR) and the New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation (TRSR) N.J.A.C. 7:26E.

2.0 PURPOSE OF THE QUALITY ASSURANCE PROJECT PLAN

The QAPP, which was prepared in the accordance with Federal and State regulations and guidelines, will ensure that the remedial field sampling procedures, analytical methods, and chemical analytical data are of sufficient quality to meet the intended uses.

As specific conditions and additional information warrant, this QAPP will be amended or revised to include site-specific quality assurance/quality control (QA/QC) procedures. Should additional phases of work be required, an addendum will be prepared to cover those activities, if necessary. Where differences exist between this QAPP and the Standard Operating Procedures (SOPs) in Attachment 1 of this QAPP, work will be performed in accordance with the following order of precedence: 1. QAPP, 2. SOPs. This approach is intended to ensure that site-specific concerns are reflected in the sampling program.

3.0 PROJECT ORGANIZATION AND RESPONSIBILITIES

3.1 JMC PROJECT DIRECTOR AND FIELD SUPERVISOR

The project will be directed by James Clabby of JMC who can be reached at 732-295-2144. The field supervisor assigned to this project is Thomas Adams of JMC.

3.2 LABORATORY SELECTION

The analytical laboratory selected for the remedial programs is IAL Laboratories of Randolph, New Jersey. IAL is a New Jersey State certified laboratory capable of completing the required analysis. A copy of selected Laboratory's Quality Assurance Plan (LQAP) is

provided as Attachment 2 to this QAPP. If the selected laboratory changes during the course of this project this QAPP will be updated with the new laboratory's LQAP.

4.0 QUALITY ASSURANCE OBJECTIVES FOR DATA COLLECTION

All soil matrix samples collected for analysis will be analyzed by a NJ-certified analytical laboratory using approved USEPA methodologies for the parameters required to be tested. In addition to PCBs, the specific parameters analyzed will be dependent upon the requirements specified by the disposal facility where the material will be disposed. All PCB samples will be analyzed using Method 8082 from SW-846.

It is proposed that NJ-Reduced data deliverables be submitted for all confirmatory sample analysis.

4.1 DATA QUALITY PROTOCOLS

All analyses for soil samples collected from the Arsynco site will be performed following the Environmental Protection Agency (EPA) methodology referenced in *Test Methods for Evaluating Solid Waste Physical/Chemical Methods* (EPA SW846). The data quality protocols will include, but may not be limited to, analytical data quality requirements, data quality assessments and subsequent qualifiers, and required documentation. Method detection limits are those specified by the referenced EPA method with allowances for dilutions and dry weight conversions (Attachment 2).

4.2 ACCURACY

Accuracy is defined as the degree of agreement of a measurement or average of measurements with an accepted reference or true value. Accuracy will be evaluated by use of calibration and calibration verification procedures, laboratory control samples, surrogates, and matrix spikes (see Attachment 2).

4.3 PRECISION

Precision is defined as a measure of mutual agreement among individual measurements of the sample property. Precision will be evaluated by the analysis of laboratory and matrix spike duplicate samples at the rate specified in the standard method. Precision will be calculated as relative percent difference and will be evaluated by the acceptance criteria specified in the standard method.

4.4 DATA REPRESENTATIVENESS

All samples will be collected in a standardized manner that will result in representative sampling. The procedures outlines in this QAPP are designed so that the samples collected will present an accurate representation of actual site conditions.

4.5 DATA COMPARABILITY

Standardized sampling techniques and analytical methods will be used to attain stated project objectives. Data comparability will be ensured by control of sample collection methodology, analytical methodology, and data reporting. This QAPP and the proposed sampling methodologies are designed to minimize comparability concerns regarding sampling techniques.

The level of laboratory deliverables (NJ Reduced) will maximize comparability of analytical results. The use of the appropriate NJDEP/EPA approved methodologies will ensure data comparability.

5.0 SAMPLING PROCEDURES

5.1 PRE-SAMPLING PREPARATION

Sampling equipment (i.e., trowels and mixing pans) will be cleaned and wrapped in aluminum foil prior to arrival on-site. Field decontamination will be performed between sampling locations in accordance with JMC's SOPs. Large equipment, such as backhoes and excavators, will be decontaminated prior to the start of sampling activities. Decontamination will consist of a pressurized hot water "steam" wash.

5.1.1 Cleaning Materials

Laboratory grade detergent will be a standard brand of phosphate-free detergent such as Alconox or Liquinox. Pesticide-grade acetone will be used as a cleaning solvent, when appropriate. Tap water will be taken from the municipal water supply. ASTM Type II, deionized, distilled, analyte-free water will be used as the final water rinse.

5.1.2 Field Decontamination Procedures

Sampling equipment will be decontaminated prior to each use according to the JMC's SOP for sampling equipment decontamination. JMC's field SOPs for decontamination of sampling equipment is provided in Attachment 1 of this QAPP.

5.1.3 Analyte-Free Water

The analytical laboratory must maintain quality control records for blank water and rinse water, in order to demonstrate, on a regular basis, that all target compound concentrations are less than the quantitation limit, as defined in EPA SW846.

5.2 SOIL SAMPLING

5.2.1 Sample Locations

The soil sampling program will include the collection of soil samples at various depths. During the soil delineation and post-excavation sampling activities, soil samples will be collected at in accordance with NJDEP Technical Regulations.

5.2.2 Sample Designation and Task Documentation

Each sample collected will be assigned a sample designation according to a pre-determined numbering system. The sample designation includes, in abbreviated form: the sample location, and the sample number and the sample date. These sample designations will be written in indelible ink on an identification label which will be attached to each sample container.

5.2.3 Sampling Equipment and Procedures

A detailed description of the sampling protocol and equipment associated with the soil samples is provided in the SOPs provided in Attachment 1 of this QAPP. All sample containers will be placed in a cooler for shipment to the laboratory. Section 6.0 of this QAPP describes sample handling procedures. A field blank will be collected a rate of one field blank per day per sampling equipment type. In addition, duplicate samples will be collected at the rate of one duplicate per every 30 post-excavation samples. Sampling will be completed using phthalate free sampling gloves to prevent sample contamination.

Laboratory soil sample analyses will include PCBs.

5.3 SAMPLE PRESERVATION

Soil samples for laboratory analysis will be collected in wide-mouth amber glass jars. Samples will be kept at 4°C until they are analyzed.

5.4 FIELD DATA DOCUMENTATION/FIELD LOGS

All pertinent data collected during sampling operations will be entered into bound field logbooks. Each page will be numbered, dated, and initialed by the person making the entry. All entries will be made in ink. Errors will be crossed out with a single line, initialed, and dated. Each page will be countersigned, if possible. At the completion of each day, if a page is not complete, a diagonal line will be drawn through the remainder of the page with the signature(s) at the bottom of the page.

The distance and bearing of all sample locations will be measured from a surveyed, on-site benchmark. Alternatively, a GPS with a differential correction beacon will be used to document sample locations. All sample locations will be recorded and referenced to a site map so that each location is permanently established. Samples will be tagged or labeled with

all pertinent site information at the time of sampling. Section 6.1 of the QAPP describes the sample identification requirements. Pertinent site information to be supplied in the field logbook for each task is as follows:

- Signature of note taker
- Name and location of investigation
- Date and time of arrival and departure
- Names of all personnel at the project site/work area and their affiliation or reference to daily sign-in log
- Purpose of the visit
- All field instruments used, date and time of calibration and calibration checks, method of calibration, and standards used
- All field measurement results
- Date, time, and location of all sampling points
- Any factors which could affect sample integrity
- Name of sampler
- Sample identification, sample description
- Documentation of all conversations with Client, regulatory agency personnel, field decisions, and approval of any modifications to this QAPP or the site workplan
- Weather conditions

Field logbooks should contain only factual information entered as real-time notes which will enable the user to recreate events on-site. Excavation logs will be maintained in the field logbook. The field logbook is a part of the project file and is admissible as evidence in litigation.

6.0 SAMPLE CUSTODY/SAMPLE CONTROL

A sample is physical evidence collected from the project site. Due to the evidentiary nature of the data collected, the possession of samples must be traceable from the time the empty sample containers are prepared by the container supplier through the reporting of the analytical results.

As an essential part of project management, sample control procedures have been established to ensure sample integrity. All sample containers and samples will be maintained under strict custody procedures throughout the investigation.

6.1 SAMPLE IDENTIFICATION

1. Each container will be labeled by the sampler to avoid any possibility of sample misidentification.
2. At a minimum, each label will contain the following information:
 - Site Name
 - Sample designation number (field number)
 - Date sampled
 - Time sampled
3. At the Laboratory, each sample will be assigned a unique laboratory identification number that will be used for analysis assignment, sample tracking, and data reporting while the samples are at the laboratory.

6.2 SAMPLE CUSTODY

Samples collected for chemical analysis on each sampling day will be considered under custody if:

1. They are in the custodian's possession.
2. They are in view, after being in the custodian's possession.
3. They were in the custodian's possession and were locked up or sealed in a tamper-proof manner.
4. They are placed in a designated secure area.

6.3 SAMPLE CUSTODY PROCEDURES

1. Empty, clean, sample containers will be relinquished by the analytical laboratory on a lab bottle order-delivery form.
2. Any transfer of custody of containers or samples will be noted on the chain-of-custody record.
3. Each sample collected for the project will be entered on a chain-of-custody record.
4. The original chain-of-custody record will accompany the sample containers during transport, to document their custody.
5. If custody is relinquished through a common parcel carrier for delivery to the laboratory, the following protocol will be followed:
 - a. The original chain-of-custody record will be placed inside the shipping package.

- b. The shipping package will be sealed with strapping tape and a custody seal will be affixed. The seal will be placed on the package in such a manner that the package cannot be opened without breaking the seal. The seal will serve to document that the samples remained unaltered during the shipment via the common parcel carrier.
- 6. The laboratory will assume custody of the samples upon receipt and a designated sample custodian will be charged with sample receipt, completion of custody forms, checking correctness of sample documentation, sample log-in, and sample distribution.
- 7. The laboratory will retain custody of the samples in a secure area until such time as the samples are destroyed.
- 8. The following information must be supplied to complete the chain-of-custody record:
 - a. Project name
 - b. Signature of sampler
 - c. Sample location number, date and time of collection, grab or composite, media sampled sample designation, type of analysis required, and site name and location.
 - d. Signatures of individuals involved in sample transfer, i.e., relinquishing and accepting samples. Individuals receiving the samples shall sign, date, and note the time that they received the sample, on the chain-of-custody record.
 - e. In the comment section of the chain-of-custody record, the type of common carrier service, if any, will be indicated.

6.4 SAMPLE SHIPMENT PROCEDURES

All samples for analyses will be packaged in shipping containers for same day or overnight delivery to the analytical laboratory. Sample packaging for shipping procedures will be as follows:

- 1. Each sample container will be checked for a properly completed sample identification label.
- 2. A large capacity cooler, or specific laboratory-prepared sample shipping container, will be used to ship the samples. Each cooler will have the drain plug shut. Ice or freezer packs will be placed in the bottom of the cooler.
- 3. All samples will be maintained at 4 degrees centigrade during shipment. Either ice or freezer packs will be used to keep the samples cool.
- 4. The chain-of-custody record will be placed in a plastic bag, sealed, and put inside the shipping container.

5. The cooler or shipping container will be taped closed with strapping tape.
6. Two signed and dated custody seals will be placed across the edges of the shipping container that can be opened.
7. Unless the sampling or laboratory delivery personnel transport the samples to the laboratory, the cooler will be relinquished to the courier with the required signed and dated shipping documentation.

7.0 CALIBRATION/ANALYTICAL PROCEDURES

7.1 LABORATORY CALIBRATION

Laboratory instruments will be calibrated following the referenced EPA SW-846 analytical method protocols. Initial calibrations will be performed before sample analysis. Calibration checks will be performed at the frequencies specified in each analytical method. Additional information regarding laboratory equipment calibration is provided in Attachment 2.

7.2 LABORATORY ANALYTICAL PROCEDURE

Analyses of soil samples will be performed using SW-846 protocols. The analyses of these parameters are necessary for delineation and confirmation purposes. The choice of EPA-approved methodology is considered sufficient to meet project data quality objectives for these parameters.

7.3 FIELD CALIBRATION

Particulate monitoring equipment and PID screening instruments will be calibrated by qualified technicians prior to being taken on-site. Calibration and battery checks will be performed daily by site sampling personnel.

All results of field calibrations and measurements will be maintained on forms assigned to the specific instrument and/or field logbooks. Initial calibrations of field instruments will be performed by a qualified technician prior to mobilization of equipment to the site. Daily calibrations will be performed on-site by sampling personnel. The recorded calibration information will include date of calibration, standards used, and calibration results.

7.4 FIELD PREVENTATIVE MAINTENANCE

All field instruments will be checked by qualified technicians prior to use in the field. A qualified technician will perform the required types and frequencies of maintenance checks on the field instruments. Instrument maintenance will be recorded on forms or in a logbook. All factory maintenance records are kept on file. Field maintenance will be performed as needed and recorded in the instrument logbook, form and/or field logbook.

8.0 DATA REPORTING

All deliverables/packages from the laboratory will be paginated in ascending order. The laboratory will keep a copy of the paginated package in order to be able to respond efficiently to data inquiries. Any errors in reporting identified during the data review process must be corrected by the reporting laboratory.

NJDEP reduced laboratory data deliverables will be provided.

ATTACHMENT 1

DECONTAMINATION PROCEDURE FOR NON-AQUEOUS MATRIX

Decontamination for non-aqueous matrix sampling equipment are as follows.

Supplies:

- o Non-phosphate detergent;
- o Tap Water;
- o Distilled/deionized water;
- o 10% nitric acid solution;
- o High purity solvent (Acetone);
- o Six (6) dedicated containers;
- o Two (2) plastic spray applicators;

Procedures:

- 1) Physical removal of any contaminated media from equipment.
- 2) The non-phosphate detergent wash will remove all remaining visible particulate matter and residual oil and grease.
- 3) The tap water rinse and distilled/deionized water rinse will remove the remaining non-phosphate detergent.
- 4) The 10% nitric acid rinse provides a low pH media for the removal of trace metals remaining on equipment.
- 5) The distilled/deionized water rinse will remove the remaining 10% nitric acid.
- 6) The high purity solvent rinse is performed to remove trace organic material remaining on equipment.
- 7) Air drying will allow the high purity solvent to evaporate completely.
- 8) Lastly a distilled/deionized water rinse will remove any remaining solvent.
- 9) Decontamination fluids will be collected and containerized for subsequent off-site disposal or on-site treatment and discharge or disposal in accordance with an appropriate NJDEP permit.

FIELD PHOTOIONIZATION DETECTOR (PID) ANALYSIS PROCEDURES

The following procedure will be used to establish "field estimates" of the concentration of volatile organic vapors in soil samples. It is noted here that the determinations made in the field are not considered valid for determining contamination extent and are not offered as concise analytical data. The use of the photoionization detector (PID) is standard on JMC projects involving organic compounds and will be useful in screening samples for later laboratory analysis.

Equipment:

- o MiniRae photoionization detector (PID), Model 3000 with 10.6-eV lamp;
- o Wrist watch;
- o Thermometer (C-scale);
- o Wide-mouth glass jars with teflon-lined screw caps (1 per sample);
- o Aluminum Foil .

Procedure

1. The PID meter will be started according to standard operating procedures and calibrated as per the manufacture's instructions (attached);
2. The ambient air temperature in the work area will be recorded;
3. The probe will be placed into the empty glass jar and any levels of organics in the jar will be recorded. If instrument readings indicate that ANY organic levels are present, the bottle will be discarded;
4. The soil sample (approximately 20 grams) will be placed into the glass jar to the one centimeter level. The mouth of the glass jar will then be covered with aluminum foil and the cap will be replaced. The sample jar will then be agitated vigorously for 30 seconds;
5. The sample jar will then be placed on flat surface and the screw cap will be removed. Once the cap is removed, the PID probe will be inserted through the foil layer to a point about 1 centimeter above the sample matrix in the jar. The instrument probe will not be allowed to come into contact with the soil. The level registered on the PID indicator scale will be recorded;
6. The probe will be removed, the contents of the jar will be emptied, and the jar will be discarded. Repeat procedures 2-6, as necessary;
7. If the probe should come in contact with the soil, the probe will be removed and rinsed with distilled water. The probe will then be allowed to air dry and the instrument will be reassembled. The sample in which the contact occurred will be mark appropriately, and subsequent samples analyzed thereafter will be marked.

SHALLOW EXCAVATION AND SAMPLE COLLECTION

Soil samples will generally be collected from this shallow excavation as described below:

Equipment:

- o Backhoe (typically, 0.5-yard bucket, 14-foot reach);
- o 4-inch O.D. stainless steel hand augers;
- o Stainless steel hand trowels;
- o Disposable fiber brush;
- o Distilled water;
- o Acetone;
- o Plastic spray applicators;
- o Wide-mouth, amber glass jars and septum vials with teflon-lined screw-caps;
- o Sample cooler/ice packs.

Procedures:

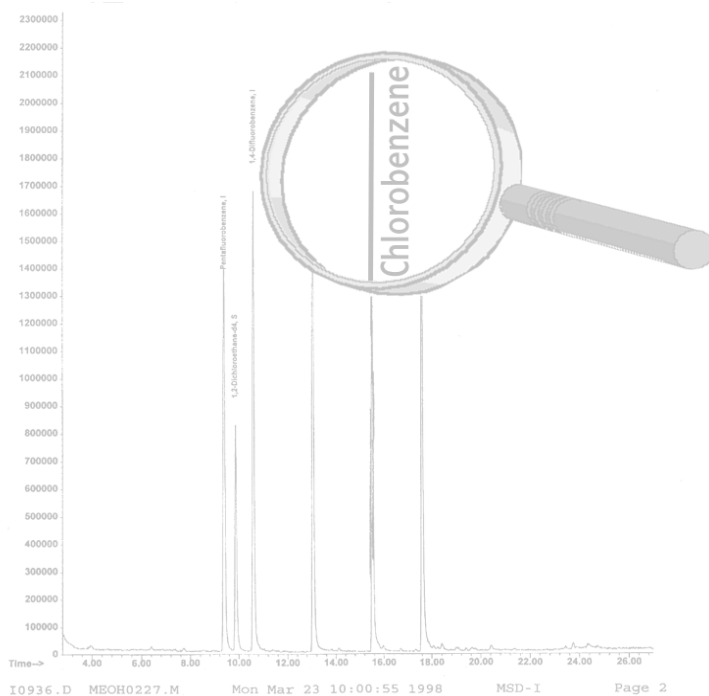
- 1) The excavation area will be cleared of surficial debris by the backhoe.
- 2) The machine will be used to excavate to within 0.5-foot of the desired sample horizon and a level surface cleared. The soil samples will be collected using a hand auger as the bucket of the backhoe cannot be adequately decontaminated.
- 3) The soil auger will be placed in the hole and advanced to the desired sample depth and removed. Upon removal, the auger will be scrubbed clean using analconox and distilled water mixture. After scrubbing, the auger will be rinsed with thealconox/water mixture and then rinsed again with distilled water. The auger will be rinsed with acetone to remove any residual contamination, air dried, then given a final rinse with distilled water.
- 4) The soil materials encountered during the boring will be logged as they are brought to the surface.
- 5) A clean auger (the second auger) will be used to collect the soil sample from the zone of interest.

SHALLOW EXCAVATION AND SAMPLE COLLECTION (Continued)

- 6) The soil will be removed from the auger. Only the interior portion (3 to 4 inches) of the soil will be collected for later analysis. The top and the bottom portions of the auger sample will be discarded. A portion of the sample will be set aside for field analysis.
- 7) The soil sample for laboratory analysis will be placed in a wide-mouth amber jar or a septum vial with a teflon-lined screw cap. A sample label will be prepared showing the sample number, depth of collection, date, and analysis to be conducted. A Chain-of-Custody control form will also be prepared.
- 8) The soil sample bottle will be placed in a storage cooler at 4°C (wet ice) for transfer to the laboratory.

ATTACHMENT 2

Quality Assurance/ Quality Control Manual



Laboratory Director
Michael H. Leftin, Ph.D.

QA Officer
Regina Shadis

IALQAM Revision 21
JANUARY 2011

INTEGRATED ANALYTICAL LABORATORIES, LLC
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Service Philosophy



Integrated Analytical Laboratories, LLC (IAL) is a full service environmental laboratory dedicated to providing high quality analytical data. Our philosophy maintains that high quality data can only be achieved through a combination of state-of-the-art instrumentation and a team of highly qualified professionals. This is passed onto our clients in the form of timely, accurate, and cost efficient analytical data reports.

The management of IAL stresses communication at all levels and strives to maintain an atmosphere of excellence, which our customers deserve. IAL is continually upgrading our operations to remain current with the latest technical advances in instrumentation and procedures, as well as, the latest rules and regulations.

This manual describes the Quality Assurance/Quality Control procedures at IAL in compliance with the New Jersey Department of Environmental Protection (NJDEP). All procedures in this manual are enforced by laboratory personnel and are EPA/NJDEP-NELAC approved.

Integrated Analytical Laboratories, LLC maintains certification in several states throughout the US. IAL is certified by the New Jersey Department of Environmental Protection (No. 14751) as a NELAC laboratory. IAL is also certified by the New York Department of Health-ELAP (No. 11402), the Connecticut Department of Public Health (PH-0699), and the Rhode Island Department of Health (No.126). IAL is routinely adding new states to our list profile. The most current information can be obtained by contacting our QA Department.

IAL operates under a quality assurance program in accordance with the 2003 NELAC Standard, which touches on every level of the company and controls all aspects of the analysis of samples.

A handwritten signature in black ink, reading "Michael H. Leftin".

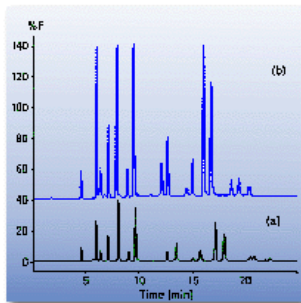
Michael H. Leftin, Ph.D.
Laboratory Director

A handwritten signature in black ink, reading "Regina Shadis".

Regina Shadis
QA Officer

Quality Policy and Objectives

Quality Policy



IAL is committed to the production of analytical data of the highest quality and to continuous improvement in all areas of our operation. Only procedures and techniques meeting the highest standards will be used. Because of having a focus on environmental analyses, an emphasis is placed on timeliness of work, exacting quality, and dependable, legally defensible data. Each operation maintains a local perspective in its scope of services and client relations and maintains a national perspective in terms of quality. Under the guidance of this quality assurance manual, a level of quality, which is acceptable on a national and international scale, is upheld in all IAL operations.

The corporate goal for all segments of IAL operations is for quality of the highest caliber. The process of achieving this goal entails continuous evaluation and action. IAL management requires documentation of existing practices and improvement action plans at every stage in the improvement process. Management follows this documentation process in order to demonstrate control of the laboratory operations.

A spirit of innovation is an essential element to the success of IAL in solving the complicated analytical problems encountered in environmental samples. This spirit, combined with the discipline and attention to detail required to provide the level of service expected by our customers, is what makes IAL stand out among others in this field. This same spirit is what drives the continuous striving for quality improvement and is the keystone to the IAL quality program.

■ **Communication**

IAL has a strong commitment to making all of the parts of the organization work together. The Laboratory Director stays current in the daily events of the lab. Reporting directly to the Lab Director are the QA Officer, Organics Manager, Inorganics Manager (Metals Dept.) and the General Chemistry Manager. The Lab Director and Managers meet monthly to discuss the current status of their departments, future requirements, company goals, employee issues, etc.

Reporting directly to the Managers are the chemists and technicians in each department. Each department has a hands-on, working Supervisor, responsible for daily schedules, immediate issues and substituting in the Managers absence. All deviations from standard policy are made as a joint decision on a case by case basis between the technician, department supervisor, department manager, and the laboratory manager.

All departments meet each month. All employees in the department are required to attend the monthly meetings. Laboratory arrangements for permitting departures from documented policies and procedures or standard specifications are discussed at monthly meetings.

Quality Policy and Objectives - continued

■ Confidentiality

To ensure the agreements of confidentiality that IAL has with its clients, all employees are required to sign a confidentiality statement at the beginning of their employment. This statement explains the ethical and legal responsibilities of an IAL employee as well as procedures to insure confidentiality.

The following items are covered by the IAL Confidentiality Policy:

- 1) No client's name, person's name, company's name, or site location will be written on correspondence or be verbally transmitted in reference to a particular project except to the client, persons named on the Chain of Custody (COC)/Analysis Request Form, or their designated representative.
- 2) Any request for analytical data or project information by anyone, other than those noted on the COC/Analysis Request Form will not be fulfilled without a written release by one of the people so designated.
- 3) Information not on the COC/Analysis Request Form associated with a specific work order will not be incorporated into an analytical report, except by instruction in writing by the client or the client's designated representative.

■ Ethics Program

IAL requires all company employees to participate in the IAL Ethics Program. As an environmental laboratory committed to bringing the best quality data to our clients, the practice of fraud at IAL is unacceptable.

Quality requirements are strictly enforced. Analysts and technicians must adhere to the strict protocol as established in the analytical methods set forth by the accrediting authority. IAL employees understand the difference between making a mistake and improper behavior. Any observation of suspicious, unethical, or illegal behavior is the employee responsibility to report. **IAL employees are required to report any deviation from proper, acceptable protocols. The Problem Tracking Program allows this to be done in a confidential manner.**

IAL Principles of Ethical Behavior

- 1) **Honesty** – We will not say or report things, which are false. We will not deliberately report misleading data.
- 2) **Promise Keeping** – We will go to great lengths to keep our commitments. We will not make promises that cannot be kept and we will not make promises on behalf of IAL unless we have the authority to do so.
- 3) **Integrity** - We will live up to our ethical principles, even when confronted by personal, professional, and social risks, as well as economic pressures.

IAL employees will be subjected to punishments and penalties for improper, unethical, or illegal behaviors. Depending on the offensive, punishments will include written warnings documented in the employees' file. A maximum of three (3) offenses will result in termination and possible legal prosecution.

Quality Policy and Objectives - continued

Quality Assurance Objectives

Integrated Analytical Laboratories, LLC quality assurance objectives are described below:

- **Precision**

The laboratory objective for precision is to equal or exceed the precision demonstrated for these analytical methods on similar samples and to meet or exceed precision data for these analyses published by the U.S. EPA. Precision is defined as the degree of reproducibility of the measurements under a given set of conditions. Precision is documented based on replicate analyses.

- **Accuracy**

The laboratory objective for accuracy is to equal or exceed the accuracy demonstrated for these analytical methods on similar samples and to perform better than the recovery data published by the U.S. EPA. Accuracy is defined as the bias in a measurement system. Accuracy is documented based on recovery of matrix spikes, and spiked reference materials introduced into selected samples of a particular matrix.

- **Completeness**

The laboratory objective for completeness of an analysis is to provide sufficient data of acceptable quality such that the goals of the analytical project can be achieved within the time frame required.

- **Comparability**

The laboratory goal for our comparability objective is to provide analytical data, which the accuracy, precision, completeness and detection limit are similar to these quality indicators for data generated by other laboratories for similar samples, and for data generated by IAL over time. The comparability objective is documented by inter-laboratory studies carried out by regulatory agencies, specific projects, or contracts, and by comparison, of periodically generated statements of accuracy, precision, and detection limits.

Quality Policy and Objectives - continued

Integrated Analytical Laboratories, LLC is an environmental testing facility working to insure our employees are insulated from work related undue pressures, which could compromise the quality of our data.

■ **Management Pressures and Unrealistic Deadlines**

The management of IAL realizes that imposing unrealistic deadlines on the laboratory system and employees ultimately results in system overload and undue stress on our employees. We follow a very strict protocol to insure this does not happen.

All new projects, as presented by the sales staff, are reviewed by the Laboratory Management team prior to in-house acceptance. The Laboratory Management team consists of the Laboratory Manager and all Department Managers. New projects are reviewed on a case-by-case basis with input from Project Management, Department Managers, and the Sales staff.

The Laboratory Management team will review items such as:

- All aspects of the project (i.e. analytical requirements, turn around times, number of samples, delivery of bottles/pickup of samples);
- Current laboratory work load;
- Available laboratory staff;
- Instrumentation limitations;
- Prior approved projects.

Refer to IALSOP1.2300 for New Projects. All management decisions are geared towards providing quality work and recognize that placing unnecessary demands and unrealistic deadlines on our employees will not accomplish this goal.

All Sales staff members employed by IAL report directly to the Laboratory Manager. Members of the Sales staff are not permitted to directly influence any member of the IAL analytical staff with specific client requests or demands.

The Project Management team at IAL maintains all client contact on every project in-house. Client contact between IAL employees other than the Project Management team is strictly prohibited. Clients cannot contact individual analysts, department managers, or other IAL employees to request sample prioritizing, make complaints, issue requests, and/or offer gifts and gratuities.

The Project Management team in turn does not make unwarranted demands on IAL employees to modify pre-existing arrangements. Minor adjustments can be negotiated between the Project Management individuals and laboratory staff members but not by means of undue pressure.

Quality Policy and Objectives - continued

▪ **Conflicts of Interest**

Conflicts of interest are avoided by the use of a team approach to the acceptance of client requirements rather than by the consent of an individual.

Integrated Analytical Laboratories, LLC offers an "open door" policy to IAL employees. All employees are urged to air grievances. Employees can discuss problems, which may affect their working capabilities with any member of the IAL management staff or the Laboratory Manager. All situations will be handled on an individual basis.

▪ **Document Control Procedures for Going Out of Business**

In the event that Integrated Analytical Laboratories, LLC should go out of business, all information pertaining to a client project will be returned to the client. The client will be instructed to keep the information for five years from the date of the analytical report.

Quality Assurance Systems

This section is concerned with the quality of the laboratory support systems, the infrastructure, which supports the analytical equipment and processes, sample integrity and sample handling processes, and the clients' sampling programs.

▪ **Required Equipment**

IAL's analytical system begins with the acquisition of high quality equipment to ensure efficient operation of the laboratory. IAL obtains equipment and supplies, which meet or exceed the specifications of analytical methods. All supplies meet or exceed the specifications set forth in the method or of recognized professional groups such as the American Chemical Society (ACS), American Society for Testing and Materials (ASTM), and the Association of Official Analytical Chemists (AOAC). See Appendix Section B of this manual for a list of the major equipment used by IAL.

▪ **Safety and Environmental Factors**

Factors in the environment of the laboratory affect the proper and safe functioning of the equipment, and chemical procedures. Safety and design features provide an environment conducive to efficient and effective work on the part of analysts.

▪ **Prevention of Cross-Contamination**

Design features intended to control cross contamination include the following

1. The physical separation of extractable and volatile organics operations.
2. The installation of hoods and air handling equipment in order to vent vapors out of solvent sample handling areas.
3. Segregated sample storage areas.
4. Microbiological cross-contamination is checked by performing sterile control test samples analyzed at the beginning and end of the sequence, as well as after every seven samples. Each batch of bottles, water, and media are checked for sterility.

Quality Policy and Objectives - *continued*

Quality Assurance Systems - *continued*

■ **Reagent Water Quality**

Reagent, analyte-free grade, or laboratory-pure water means distilled or deionized water meeting the specifications of ASTM Type II reagent water. This water is free of contaminants that may interfere with the analytical analyses being performed. IAL purchases certified laboratory pure water from a reputable dealer, to insure strict adherence to quality criteria. All purchased water is tested in-house prior to use. Refer to IAL SOP 1.1700.

■ **Glassware Cleaning**

Glassware cleaning procedures are posted in the glassware cleaning area. Documented in IAL SOP 1.1200, all glassware cleaning procedure meets EPA requirements. Only phosphates-free laboratory grade detergents are used for the cleaning of glassware.

■ **Cleaning of Sampling Containers**

IAL purchases certified pre-cleaned sampling containers for use by our clients. All sampling containers and sampling container-cleaning procedures meet EPA criteria. Manufacturer certificates of analysis are kept on file in the QA office.

■ **Sampling Quality Assurance**

The overall quality of data can be no better than the quality of the sample provided to the analyst. IAL takes particular care to insure the integrity of all the samples in our laboratory system. All samples received at IAL are labeled and bar-coded with an individual, unique identification number. Samples are stored in locked refrigerators until requested by the analyst. The detailed Chain of Custody forms supplied by IAL to our clients provide a means for keeping track of preservation and sample handling factors, which affect sample integrity. Recommended quality assurance practices for sampling and preservation, along with the holding time criteria to be met in the laboratory, are outlined in another section of the QA Manual.

■ **Recommended Containers, Preservation and Holding Times**

The preservation and holding time criteria specified in the enclosed Tables come from a variety of regulatory sources. The information contained in these tables is subject to regulatory revision at irregular intervals. IAL updates and circulates any revisions as soon as they are available. Refer to the Sample Container Guidelines located in this manual.

Organization and Responsibility



Organization and Staff Structure

■ **Management Team**

The Laboratory Director maintains an overview of all aspects of the company. He combines knowledge of chemistry and business to keep IAL on track.

The Quality Assurance Officer reports directly to the Lab Director. The QA Officer coordinates all quality assurance responsibilities in the laboratory. Please refer to page 10 of this manual, for a more detailed description of the QA Officer.

The Organics Manager reports directly to the Lab Director. The duties and responsibilities of the Organics Manager include quality control of all aspects of the GC and GC/MS analytical departments, maintaining instrument function, overseeing initial and ongoing training regiments for all employees in the two departments. The Organics Manager is responsible for reviewing and implementing new procedures and methodologies. It is also his responsibility to insure that sufficient personnel, instrumentation, and equipment are available for optimal operation of the department.

The Inorganics Manager reports directly to the Lab Director. The duties and responsibilities of the Inorganics Manager include quality control of all aspects of the metals department, monitoring employee performance in both the analytical division and the preparation division, maintaining instrument function, overseeing initial and ongoing training regiments for all employees. The Inorganics Manager is responsible for reviewing and implementing new procedures and methodologies. It is also his responsibility to insure that sufficient personnel, instrumentation, and equipment are available for optimal operation of the department.

The General Chemistry Manager reports directly to the Lab Director. The duties and responsibilities of the General Chemistry Manager include quality control of all aspects of the department. He monitors employee performance, maintains instruments, oversees initial and ongoing training regiments for all employees. The General Chemistry Manager is responsible for reviewing and implementing new procedures and methodologies. It is also his responsibility to insure that sufficient personnel, instrumentation, and equipment are available for optimal operation of the department.

Organization and Responsibility - *continued*

Organization and Staff Structure - *continued*

The Sales staff reports directly to the Lab Manager. Each Account Manager is required to follow a strict protocol when presented with a new scope of work from his/her client. The size of the project as well as the analyses requested will determine the course of action. All new work and pending project proposals are discussed at the monthly meetings of the Sales department attended by the Laboratory Manager. Current laboratory workload can be balanced with incoming work during these discussions. To insure laboratory capability of a large or unusual project, the Account Managers are required to submit a copy of the client's scope of work to the Assistant Sales Associate. The Assistant Sales Associate will provide a copy of the pending project to the Laboratory Director, the QA Officer, and the Client Services Division. Unusual analyses are assessed by the Lab Director, QA/QC requirements are addressed by the QA Officer and bottle shipments, pick-ups and turn around times are reviewed by the Client Services Division. All comments, questions, and concerns are addressed prior to the samples being received at the lab.

■ **Employees – Training and Experience**

All IAL employees are trained or hired as experienced personnel and evaluated for their capabilities. IAL follows the laboratory personnel requirements as stated in the NJ DEP OQA Regulations Governing the Certification of Laboratories and Environmental Measures NJAC 7:18 2.10. These requirements establish the minimum level of qualification, experience and skills necessary for all positions in the laboratory.

All GC/MS Operators and Inorganic Metal Operators are required to participate in an intensive training program prior to achieving certified chemist status. Using a combination system of instruction by the Department Manager and the Department Supervisor, computer software programs, training manuals and hands on practice, the employee is evaluated for knowledge and capabilities.

The microbiological supervisor will meet the standards as stated in NJA C 7:18-2.10 including four microbiology credits from an accredited college and/or microbiological experience as required.

All IAL employees are hired on an initial three-month probationary period. This period is used to evaluate an employee's capabilities. The manager or supervisor of the department will perform a 30, 60 and 90-day evaluation. **All new employees will be subject to a training program with Supervisor oversight during this period.**

Chemists and certified Operators will be provided with on-going education exposure from a variety of sources. New equipment purchases include training programs from the manufacturer. Associated employees are required to attend these training sessions. Employees are encouraged to participate in continuing education courses as well as attending seminars and conferences.

Organization and Responsibility - *continued*

Organization and Staff Structure - *continued*

■ **Quality Assurance/ Quality Control Program**

An integral part of the Integrated Analytical Laboratories, LLC Quality Assurance/ Quality Control Program are the systems put in place to assure the accuracy and validity of the processed data. To ensure these systems are carried out, specific duties and responsibilities have been delegated to various individuals.

Each person involved in the generation of data is explicitly part of the IAL QA/QC Program. The staff has specifically delegated QA/QC responsibilities.

The overall responsibility for quality lies with the Laboratory Director and the management team reporting to the Laboratory Director. The QA Officer and Laboratory Managers, who in turn report to the Laboratory Director, provide surveillance and maintenance of the quality assurance system.

All employees of IAL are responsible for knowing the content of the quality assurance manual and upholding the standards therein. Each member of the staff is obligated to carry out his/her daily tasks in a manner consistent with the goals expressed in the manual and in accordance with the procedures in the manual and laboratory standard operating procedures (SOPs).

■ **Quality Assurance Officer**

The QA Officer coordinates all quality assurance responsibilities in the laboratory. The independence and objectivity of the QA/QC program depends on the QA Officer being independent of the data-generating process. In particular, for QA manual compliance issues, the QA Officer must maintain objectivity and independence. The QA Officer is responsible directly to the Laboratory Director for all non-compliance concerns not adequately addressed at the departmental level in a timely manner. The primary responsibility of the QA Officer is to ensure that the laboratory is operating in compliance with the QA Manual through a process of internal audits and necessary corrective actions. The QA Officer has the authority to perform laboratory audits without notice, submit control samples, and request access to data files and other information necessary to satisfy the goals of an independent audit. The QA Officer updates and reviews all QA/QC procedures, as needed, including the QA Manual, SOP Manual, methods, etc. The QA Officer monitors and implements all requirements for state certification programs, provides updates and assistance to all departments on new analytical methodologies, and oversees review of client data reports.

Organization and Responsibility - *continued*

Organization and Staff Structure - *continued*

- **Quality Control Coordinator**

The QC Coordinator will review the data package in its entirety for proper handling of the samples, analysis calculations, completeness of the data package and adherence to methodologies and standard operating procedures. The Coordinator will perform random checks on procedure calculations and transcription errors. The QC Coordinator oversees all aspects of the sample package from inception to completion. Refer to IALSOP1.0300.

- **Sample Custody Officer**

The Sample Custody Officer maintains records of all incoming samples, tracking those samples through the laboratory and ultimately overseeing disposal of the samples. This person is responsible for receiving the samples and incorporating them into the laboratory system. This person will also verify all incoming samples correspond to the chain of custody; were handled properly; distribute documentation received with the samples to the Sample Log-In Officer; and oversee handling, storage and disposal of all the samples.

- **Sample Log-In Officer**

The Sample Log-In Officer receives all the paperwork pertaining to a specific sampling event. This person inputs all project data into the central computer data system; reviews all chain of custody information and verifies questions/rectifies problems with the client project manager. The Sample Log-In Officer generates and distributes all in-house paperwork to laboratory departments for sample analysis.

- **Department Managers**

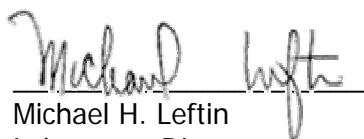
The Department Managers are responsible for all the individual laboratory activities. They train personnel in the required methods and operating procedures; verify laboratory QC and analytical procedures are being followed; reviewing data during and after acquisition; as well as addressing questions and problems that may arise.

- **Laboratory / Microbiological Technician**

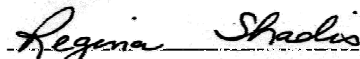
Each Technician is responsible for the proper analysis of the samples. They analyze and process the data for all the required parameters on a sample. Their responsibility is to ensure the approved method/procedure is accurately and concisely adhered to and followed. The Technician is required to keep and maintain detailed, accurate notebooks and to discuss all problems with the department manager as needed.

Organization and Responsibility - *continued*

■ **Approved Laboratory Signatories for Integrated Analytical Laboratories, LLC**



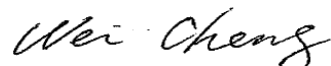
Michael H. Leftin
Laboratory Director



Regina Shadis
QA Officer



Jim Yong Jin Shen
Organics Manager



Wei Cheng
Inorganics Manager



Robert Blank
General Chemistry and Microbiology Manager

Laboratory Director, Michael Leftin makes a final review of each laboratory data report before signing the data package for release to the client.

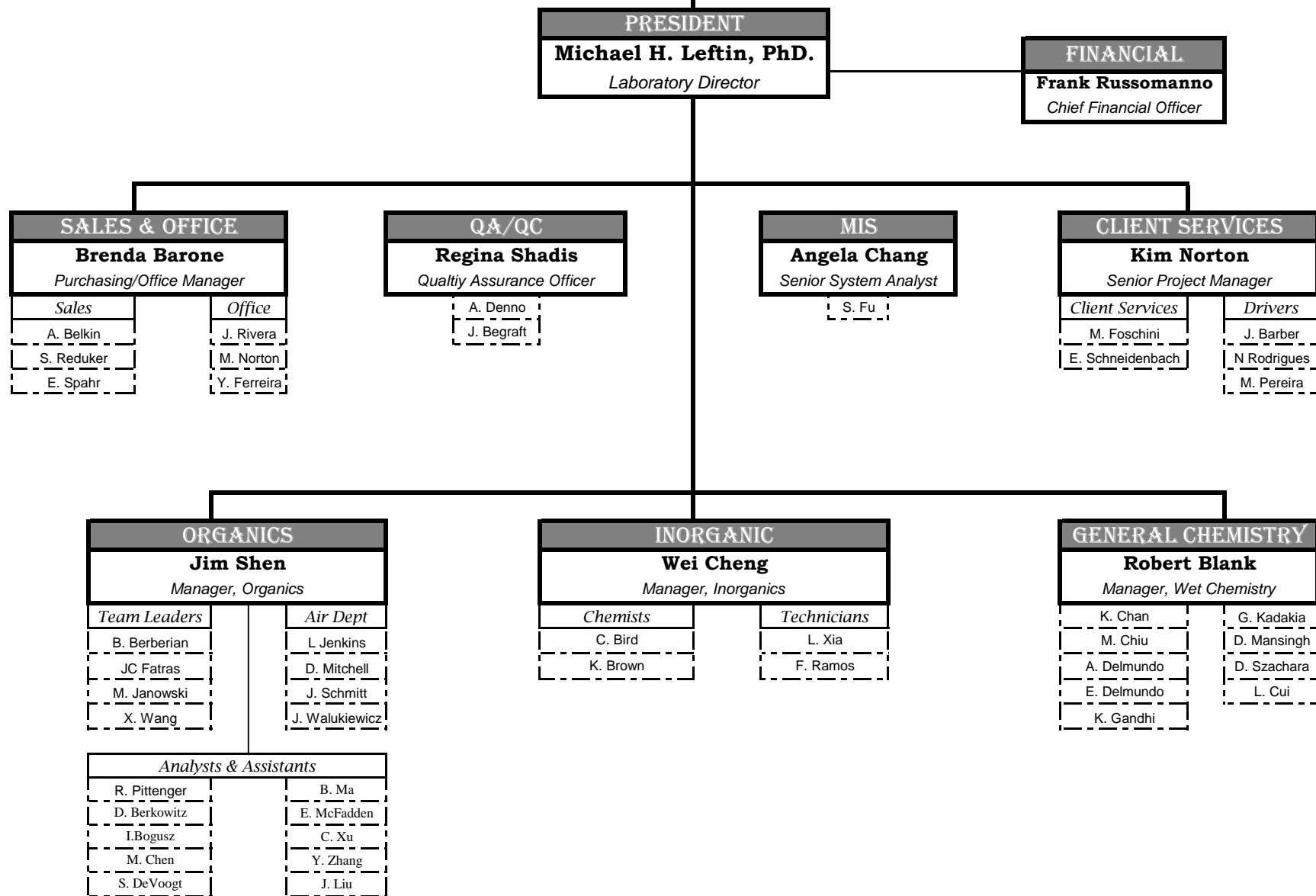
In the absence of the Lab Director, the QA Officer will sign the reports.

In the absence of the Laboratory Director, executive decisions will be made as a joint effort of the QA Officer and the Laboratory Managers.

Organizational Flow Chart

The structure of Integrated Analytical Laboratories, LLC is shown on the organization flow chart on the next page.

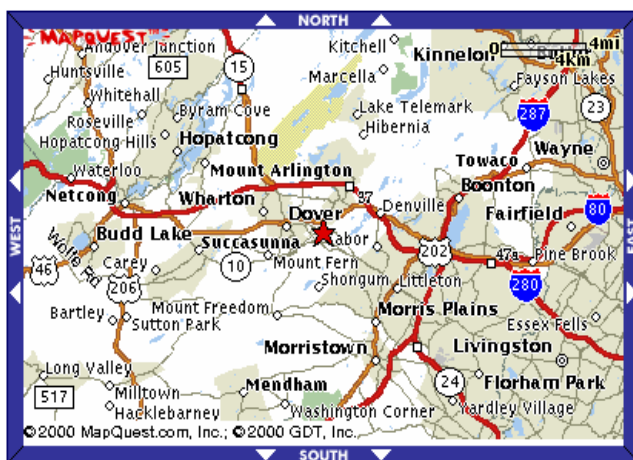
INTEGRATED ANALYTICAL LABORATORIES, LLC.



Integrated Analytical Laboratories, LLC

273 Franklin Road
Randolph, NJ 07869
(973) 361-4252 Fax: (973) 989-5288

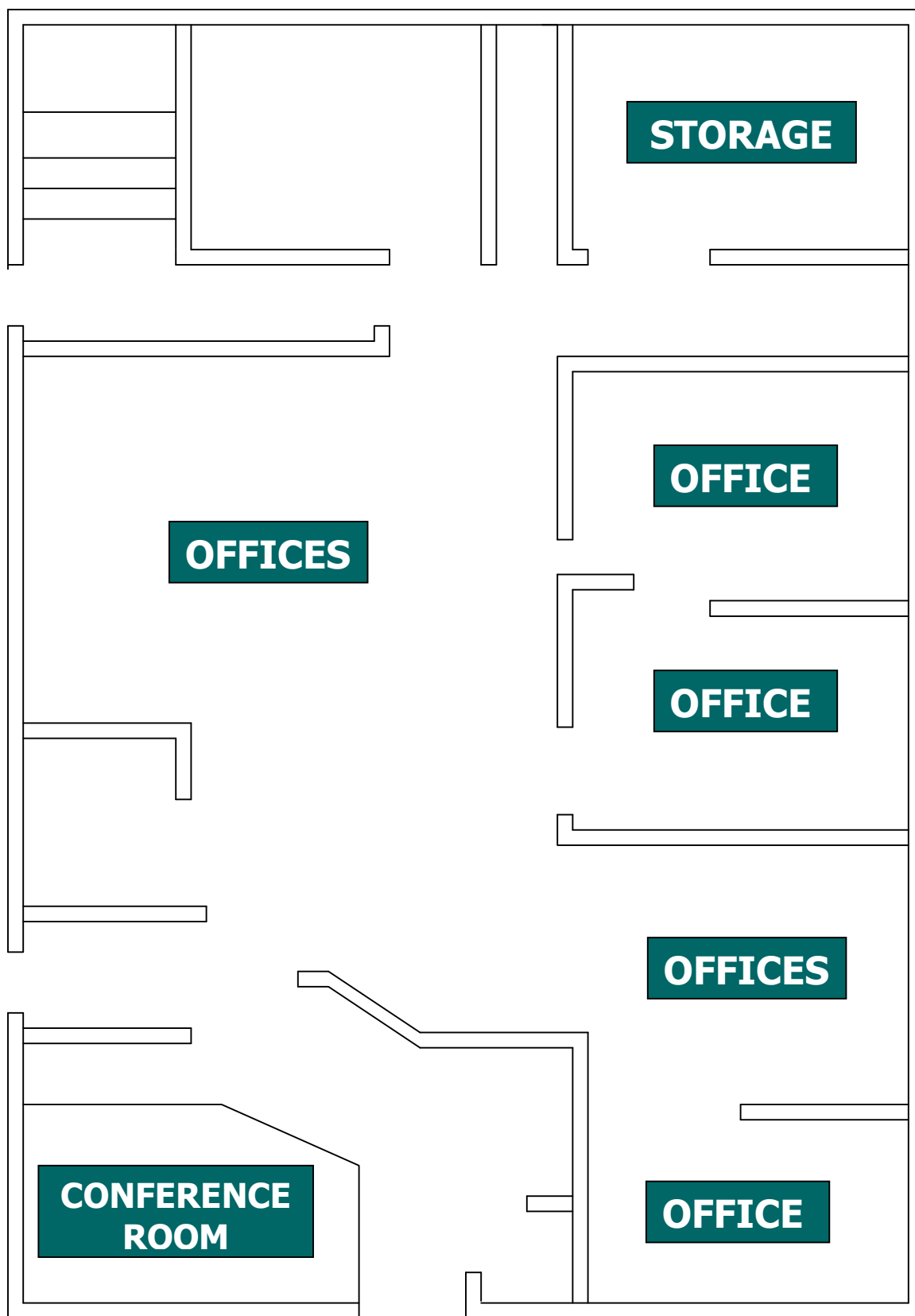
Integrated Analytical Laboratories, LLC is located in Randolph, NJ. Conveniently accessible to Routes 287, 80, 46 and 10, IAL services a vast region of the Northeast. Laboratory operations are conducted in a 20,000 square foot facility, designed to meet production demands easily and efficiently.



IAL employs a staff of approximately 60 qualified scientists, chemists, technicians, and office personnel.

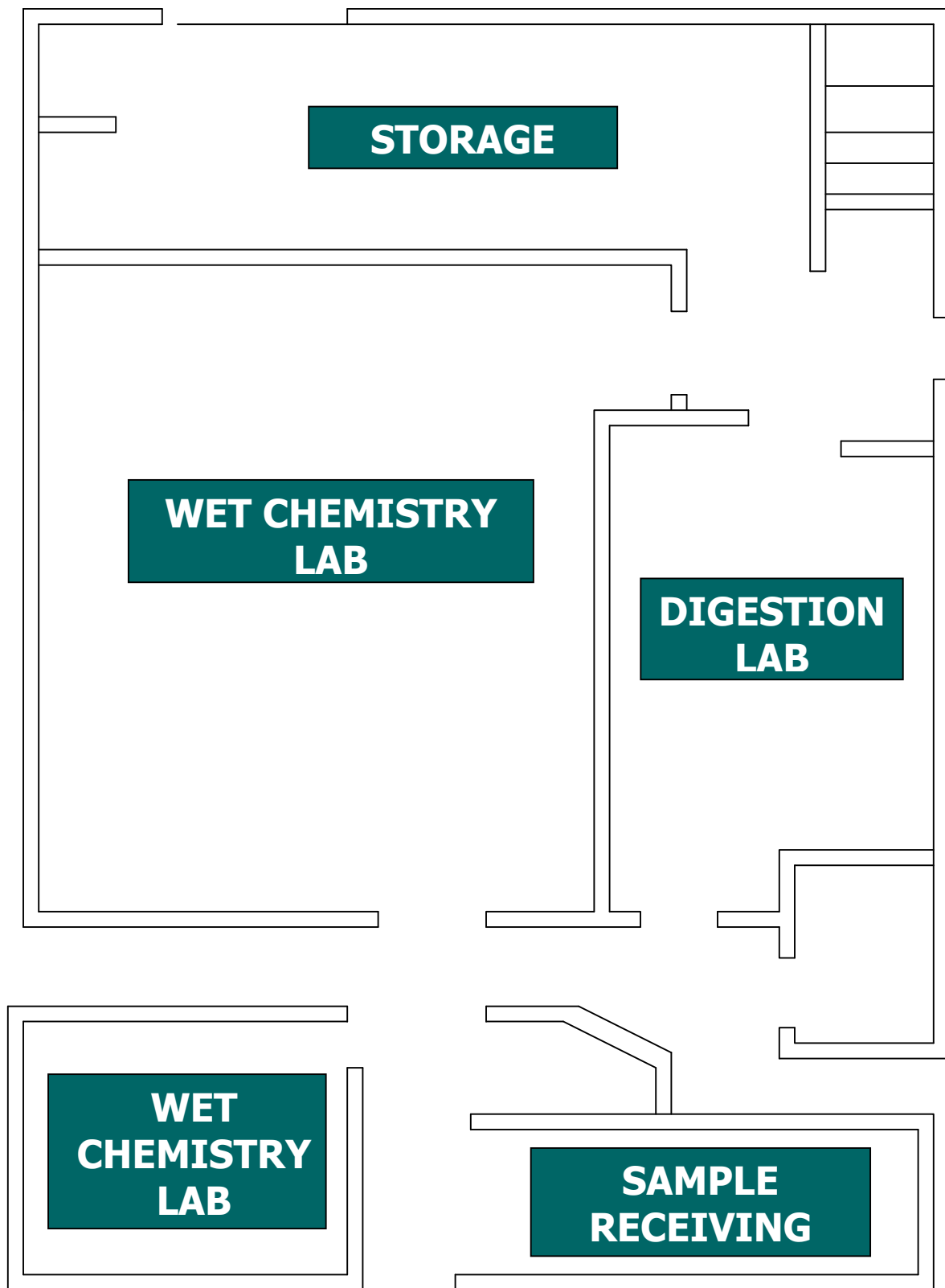
Please see the IAL facility floor plan on the following pages.

UNIT 10



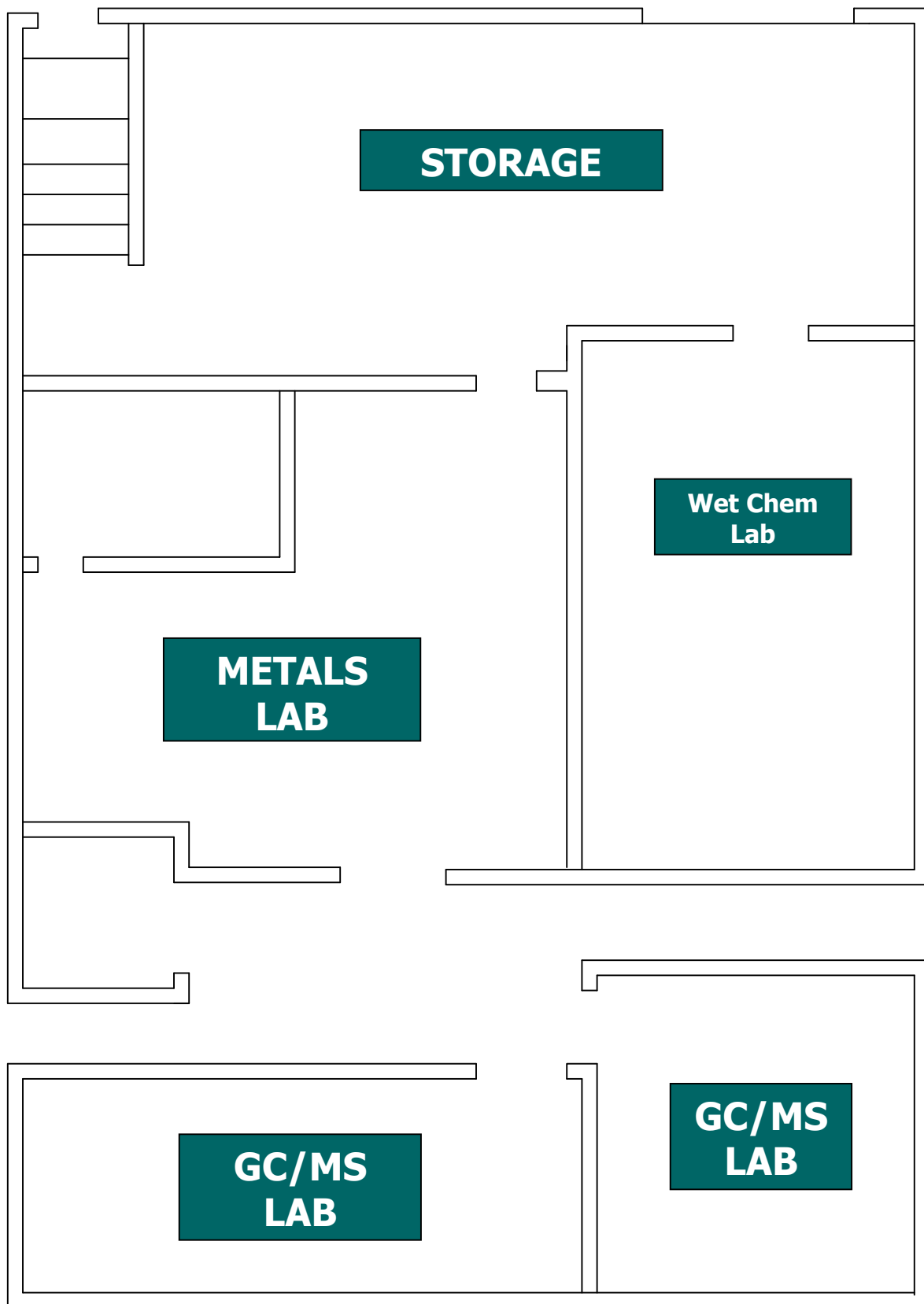
MAIN ENTRANCE

UNIT 9

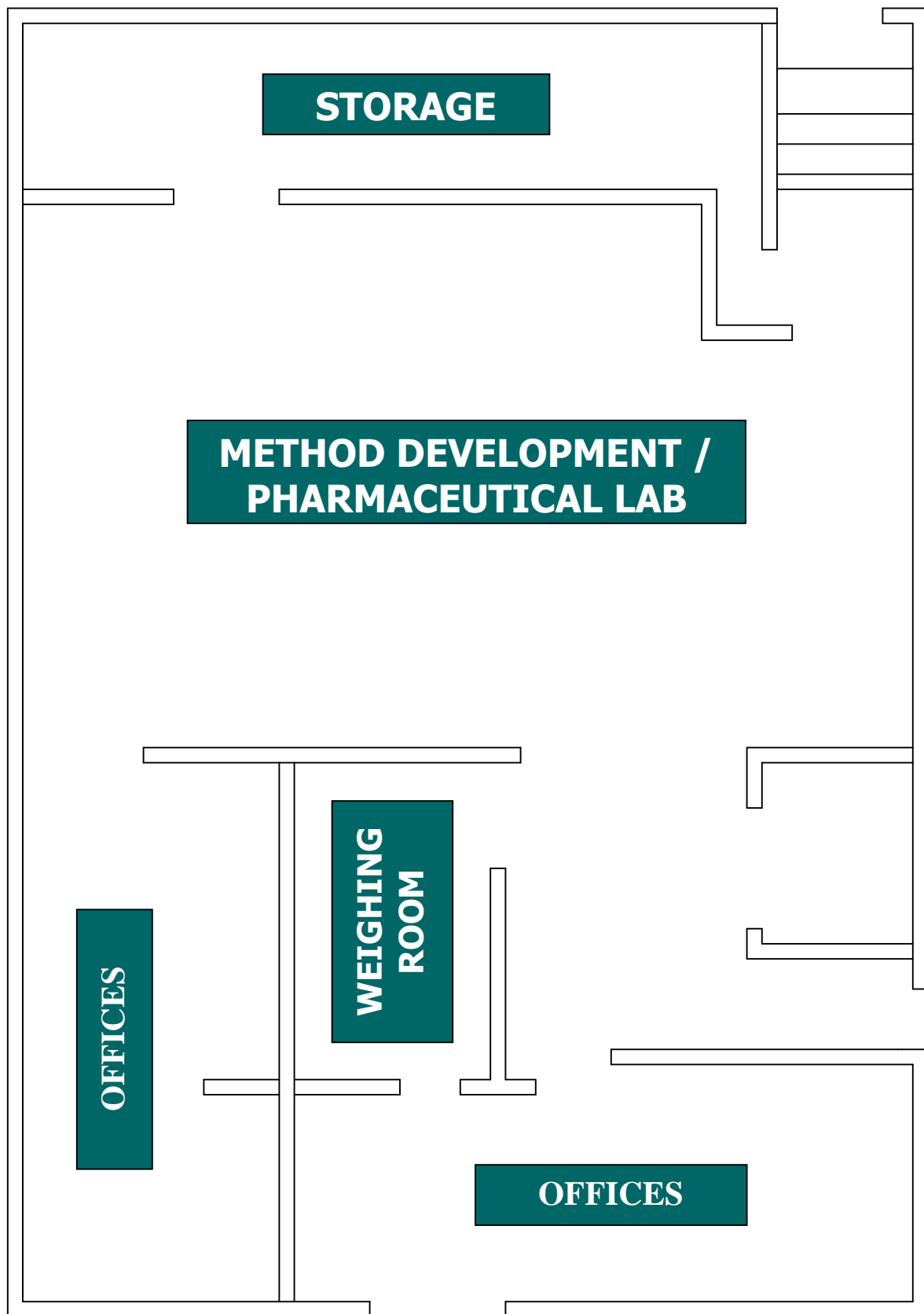


SAMPLE RECEIVING ENTRANCE

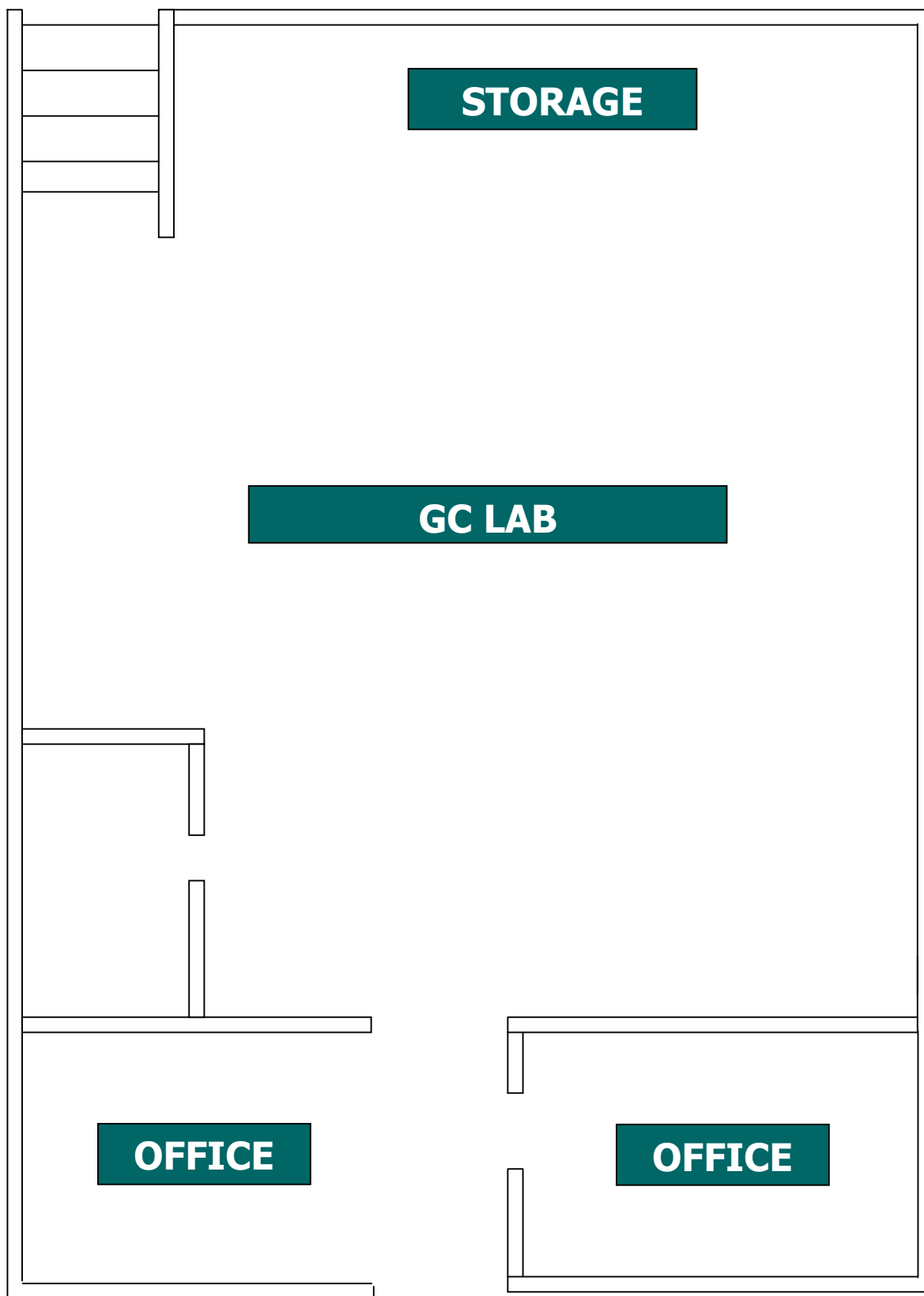
UNIT 8



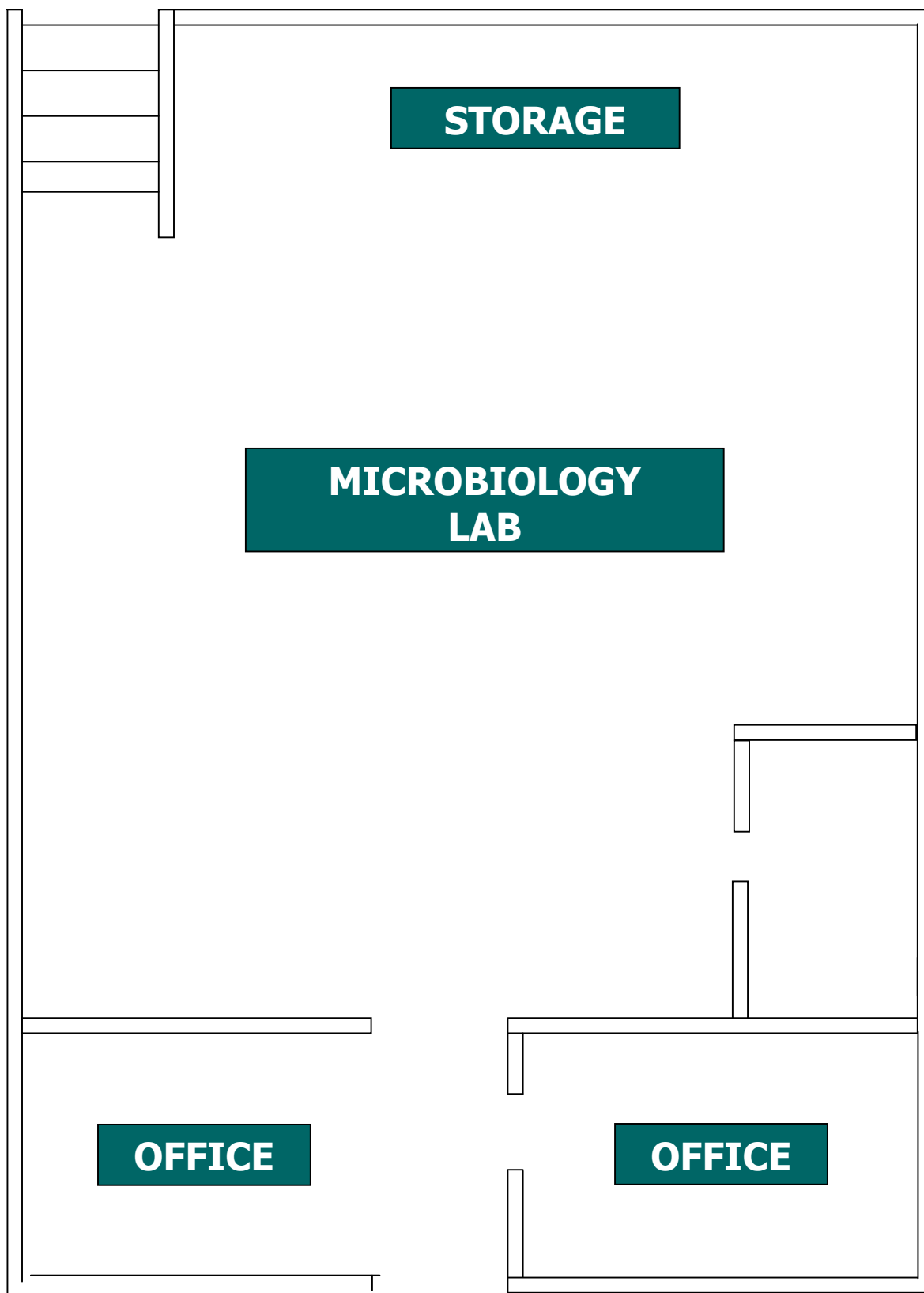
UNIT 7



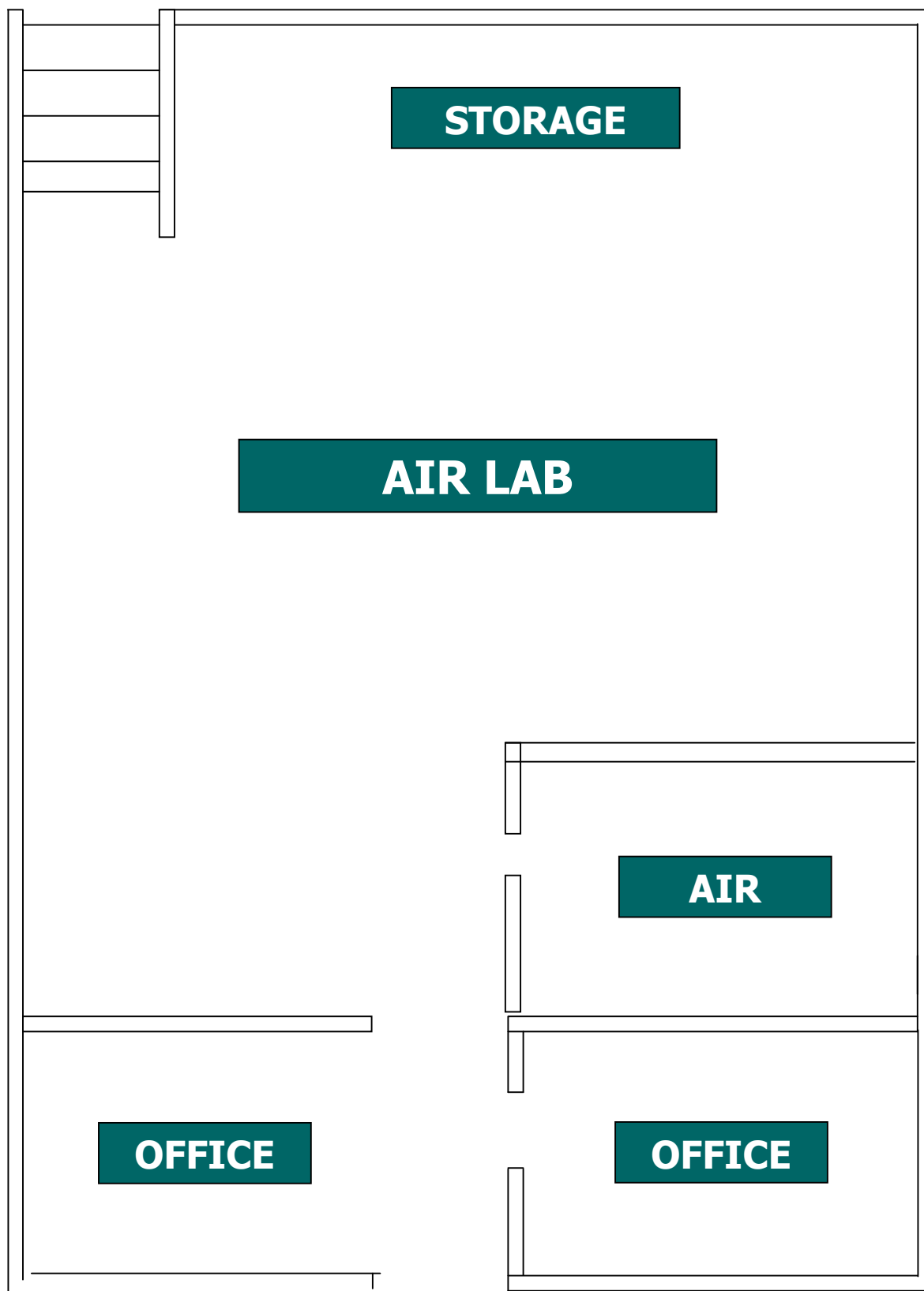
UNIT 6



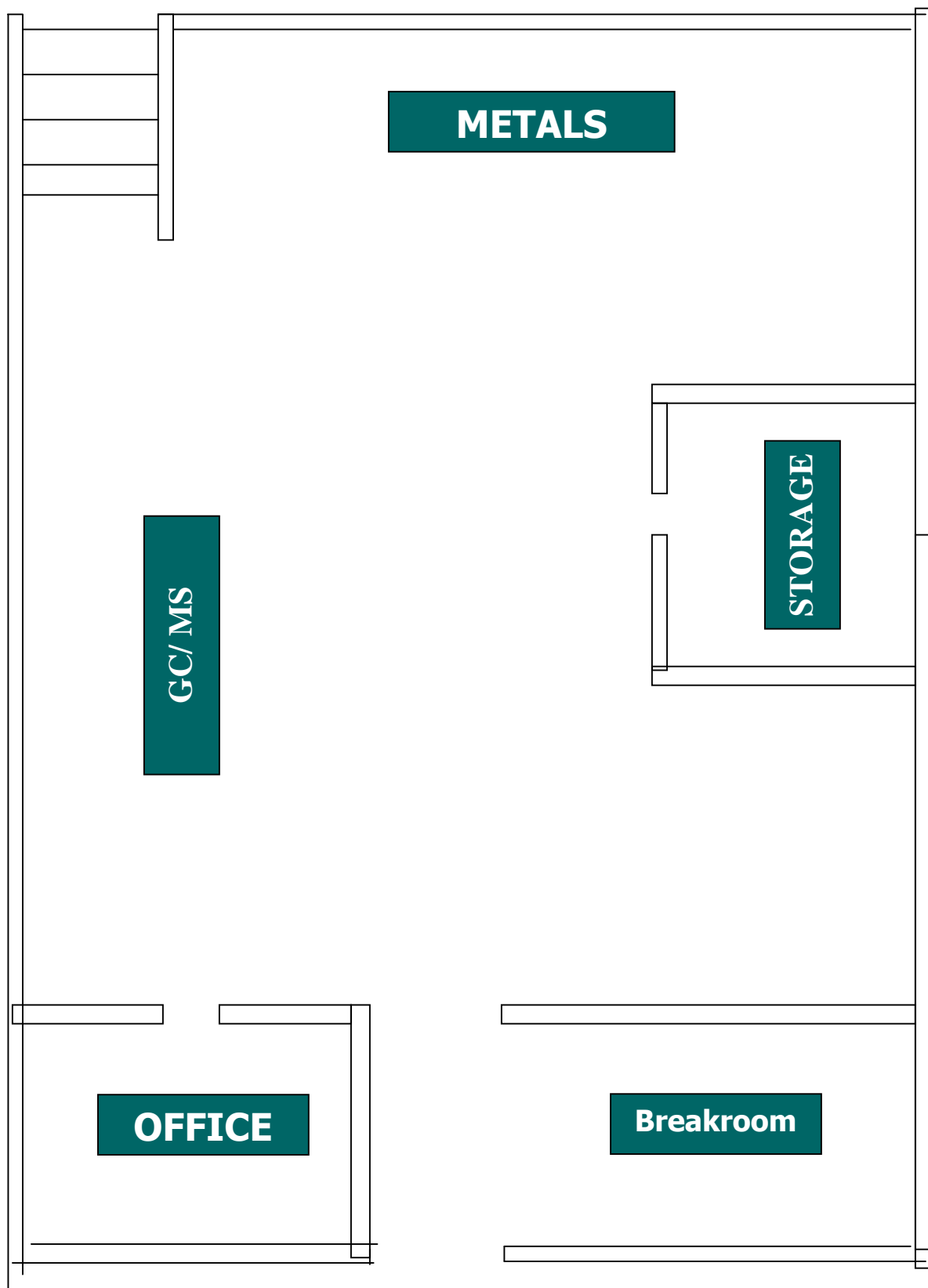
UNIT 5



UNIT 4



UNIT 3



Sample Handling and Custody - *continued*

Sample Integrity

The aim of preserving environmental samples is to retard chemical and biological changes that would inevitably continue after sample collection. IAL has a complete stock of pre-cleaned sample jars and bottles. These bottles are available on the day of sampling, preserved for the specific analysis requested.

Abusive handling or faulty packaging of a sample can be one of the many reasons why physical damage can occur. The Sample Custodian inspects samples upon receipt at the laboratory. Should the samples be compromised in some way, IAL will contact the client for a decision regarding the analysis of the samples.

In special requested circumstances, coolers can be supplied with chain of custody seals. The client in the field attaches these seals to the cooler. This prevents tampering of the samples during transit. Once the samples reach the laboratory, the seal is broken and the Sample Custodian visually inspects the samples.

■ **Sample Identification/Information**

Accurate sample identification is a basic requirement for sample integrity. Inadequate, ambiguous, or non-existent labeling of the samples will result in an automatic hold on all analyses requested. Sample identification must be obvious and accurately related to the chain of custody.

■ **Forms**

Integrated Analytical Laboratories, LLC has created several forms to aid in scheduling and monitoring client's projects. These forms include three-part IAL Chain of Custody Forms, three-part IAL Glassware Order Forms, IAL Expedited Turnaround Time Forms, Sample Receipt Verification Forms, In-house Chain of Custody Forms, and Laboratory Custody Chronicle Forms. Some of these forms are required by federal and state agencies.

Sample Handling and Custody - *continued*

Sample Receipt

Samples are received at the IAL Sample Receiving Area, Unit 9, 273 Franklin Road, Randolph, NJ 07869. Samples are received by the IAL Log-in Staff under the supervision of the Sample Custodian. The Log-In staff is trained to handle and document the samples and oversee the proper storage and handling of samples throughout the laboratory.

Upon arrival at the lab, the log-in staff member examines the sample container and sample bottles for their physical integrity (i.e. custody seals intact, bottles and container not damaged, etc.). The log-in staff verifies the condition of the received samples and the Chain of Custody (COC) based on the following information:

- a.** Sample number on COC matches bottle label
- b.** Sampling date and time
- c.** Sample matrix
- d.** Analyses required
- e.** Number of containers for each sample
- f.** Sufficient sample volume
- g.** Proper preservative/s used and verified
- h.** Cooler temperature upon receipt at the laboratory
- i.** Samples received within holding time
- j.** Date and time the custody of the samples were transferred to the lab
- k.** Deliverables requirement
- l.** Verbal and hard copy due dates

The Log-In staff assigns an IAL Lab Case Number to reference each document and insure data reporting uniformity. The Lab Case Number and sample information is input into a preliminary Log-In program in the sample receiving area. This information is used to generate specific sample bottle labels for each of the sample bottles received at the lab. Each bottle label contains the sample ID number, the analysis to be performed on the sample jar and the number of jars received for this sample number. The label is bar-coded containing the relevant sample information. Eventually all samples will be monitored throughout the lab by the bar-coded label.

Sample Handling and Custody - *continued*

■ **Sample Receipt - *continued***

Sample Receipt Verification Form (SVRF): The sample condition is verified to meet the NJDEP Field Sampling Protocol and/or EPA preservation requirements and the information is documented on the Sample Receipt Verification Form (SVRF). The following conditions will also be reported on the SVRF:

- Sufficient sample volume
- Headspace in sample containers designated for volatile organics
- Proper sample preservation (including checking the pH of the sample)
- Cooler temperature upon receipt at the laboratory

Any nonconformance will be noted on the SVRF and the Sample Log-in Officer will be notified. The COC and the SVRF are given to the Sample Log-in Officer to input the information into the laboratory computer system and deal with any problems, etc.

The IAL Sample Custodian receives the samples and documents sample integrity. The two following custody related steps occur in the sample receipt procedure and care is taken to document them properly.

- A.** Transfer of the samples to the laboratory by use of a common carrier is documented on the COC form. The shipping documents become part of the permanent project file.
- B.** The Sample Custodian is responsible for maintaining custody of the samples during the login and distribution processes and for assuring that all records documenting that possession are properly completed.

Primary factors such as sample temperature and record of preservation are checked upon receipt. Proper sampling and preservation in the field is the responsibility of the client. The IAL Chain of Custody/Analysis Request Form contains a sampling validation statement for the sampler to initial, thereby verifying that proper sampling and preservation was carried out.

Sample Handling and Custody - *continued*

Sample Receiving Documentation

The primary custody elements, which are completed and retained, are as follows:

- A.** Chain of Custody/Analysis Request Form
- B.** Shipping documents, for example the bill of lading or air bill; and
- C.** Internal Chain of Custody Record.

All client samples analyzed by IAL are handled as if they are of an evidentiary nature. The possession of samples must be traceable from the time samples are collected in the field until the analysis is completed and samples are discarded.

Custody is defined as:

- A.** In actual physical possession;
- B.** In view after being in physical possession;
- C.** In a locked area after being in physical possession; and
- D.** In a designated, locked storage area.

IAL provides sample labels and a Chain of Custody (COC)/Analysis Request Form for use by clients.

The COC and all other forms used to document the proper handling of the samples contain a location(s) for appropriate signatures. All individuals who have custody of the sample are required to sign and date the forms in ink.

■ **Sample Identification**

Every sample container received by IAL and every sample generated by sub-sampling in order to allow different analyses to be performed on the same sample are individually identified by an IAL sample number as follows:

E00-4215-001-01

Where:

- E00 = the year the samples were received at IAL
- 4215 = the sequential number given to the project
- 001 = sequential number (001 to 999) identifying each client sample in the project
- 01 = a sequential number (01, 02, 03...) which identifies each replicate sample container for each client sample in the project.

Sample Handling and Custody - *continued*

Sample Tracking and Management

IAL maintains sample information records in a Laboratory Information Computer System. This chronological record contains all samples received or generated by sub-sampling in order to allow a single sample to be analyzed by different analyses. All identifying information and cross-referencing data described above are maintained in the computer for tracking purposes.

Any sample sets, which have special handling or urgent analysis or holding time requirements, are immediately recorded into the computer system, assuring that all projects are handled and completed as requested by the client or required by the circumstances. Project folders, which have a special handling status, are color-coded.

■ **Laboratory Custody Chronicle (LCC)**

The Sample Log-in Officer generates the Laboratory Custody Chronicle (LCC) form for every project received by IAL. The LCC is designed to monitor the whereabouts and identify the personnel who have handled each sample and/or extract.

The Sample Custodian is responsible for the distribution of samples throughout the laboratory and maintaining the LCC.

The Sample Custodian will relinquish and sign over the custody of the samples to the analysts only after the analysts has signed the LCC. The date and time of analysis performed on the sample must be documented. When the analyst has completed the required tests on the sample, he/she will relinquish it back to the Sample Custodian.

If the sample requires sample preparation, the Sample Custodian will transfer the samples from the refrigerator to the Wet Chemistry Laboratory with the corresponding LCCs. Custody is transferred to the Wet Chemistry department and the LCCs signed by the Wet Chemistry staff with the date and time of sample preparation. Because of the sample preparation, a sample extract or digestate is generated. The extracts or digestates are given to the analyst and stored in designated refrigerators until analysis is performed.

Sample Handling and Custody - *continued*

Security of Project Data and Samples

Confidentiality and security are controlled with the following security items:

- 1) All visitors must sign in upon arrival and a member of the staff escorts them while inside the facility.
- 2) Sample storage refrigerators, freezers, or the rooms containing them and data storage areas are kept locked when not supervised.
- 3) Samples will remain in locked sample storage areas until removed for sample preparation or analysis. Each supervisor maintains a list of the location of all sample storage area keys or maintains personal possession of them.
- 4) Only the Sample Custodian and supervisory personnel have keys to the sample storage areas.
- 5) Managers are responsible for knowing which employees are in the building after hours.
- 6) Facility keys are issued to management personnel. The Office Manager maintains documentation of receipt of a key on file. Other employees may receive facility keys if so requested by the department manager. All keys are coded as facility specific and cannot be duplicated.

Sample Storage, Access, Temperature, and Thermometer Calibration

Samples are stored in locked refrigerators in the sample receiving/log-in area. Only specific IAL laboratory personnel have access to the storage refrigerators. Volatile samples and Semivolatile extracts are stored in separate refrigerators to prevent cross contamination.

Samples are stored in the refrigerators at 4°C (1°-6°C) and protected from light. Refrigerator temperatures are monitored and recorded twice daily in the Temperature logbook. Each refrigerator has a dedicated thermometer used for temperature monitoring. The tip of the thermometer is submersed in deionized water in a flask. The thermometer and flask are stored in the refrigerator at all times to allow observation of the temperatures periodically over the course of the day. This enables the Sample Custodian to detect any problems sooner than the documented daily inspection. If the temperature is not within the required range, it is adjusted and noted in the logbook. If the temperature is unable to be maintained, the Department Manager or Laboratory Director is notified and corrective action is taken.

If the refrigerator temperature is found to be outside of the acceptable range, the Sample Custodian will immediately notify the General Chemistry Manager and the Lab Director. The Lab Director will contact the on-call refrigeration repair service to request for immediate repairs. The General Chemistry Manager will closely monitor the situation. Dry ice will be brought in as needed. If necessary, samples will be removed to another refrigerated storage area.

Refrigerator thermometers are calibrated semi-annually against NIST thermometers.

Quality Control Procedures

Sample Disposal

Sample disposal is performed about every 6 to 8 weeks, depending on the volume of samples in-house. IAL retains client samples as long as possible until storage facilities become compromised. The samples will not be disposed of if the final hardcopy report has not yet gone out, if any samples are still on hold in the project, or if a client has requested the samples be stored until notified.

When it is necessary to dispose of samples, the QA Officer is notified. The QA Officer will determine the samples, which can be discarded, and the ones that need to be retained. The disposal facility will be notified and a waste pick up will be arranged.

Samples are disposed of according to the type of waste it contains. IAL maintains certified waste stream disposal for the materials encountered in routine environmental samples.

All waste disposals are performed in strictest compliance with New Jersey regulations. All waste disposal records are retained in the QA office and available for review as needed. "Hot" or extremely hazardous samples are segregated from the routine samples and disposed of according to proper protocol, i.e. lab pack, etc. or samples will be returned to the client.

IAL maintains a specific waste storage area to control the waste material.

All hazardous waste disposal is over seen by the Lab Director, Michael Leftin.

Quality Control Procedures - *continued*

Calibration Procedures

Calibration tolerances are specific to the analytical methods used for regulatory purposes. Specific procedures for individual instruments and analytical methods are not delineated in this document. Two types of calibrations are discussed - operational and periodic. Operational calibrations are carried out routinely as part of instrument usage. The operational calibration program involves initial calibration, QC check samples, and continuing calibration verification. Periodic calibrations are a distinct process carried out for general-purpose equipment, such as analytical balances.

■ **Instrument Calibration**

Instrument calibration is performed in accordance with the strict requirements of the methods of analysis. Initial instrument calibration will be carried out according to acceptable criteria. Continuing calibrations will be performed to confirm the validity of the initial calibration. The number of calibration standards used for a specific analysis is determined by the method. A minimum of two calibration standards will be used if not indicated in the analysis method. The initial calibration will contain standard concentrations above the instrument detection levels and in the working range of the samples being analyzed or as specified by the analytical method. All initial calibration procedures are designated in the Standard Operating Procedure (SOP) written for the analysis.

■ **Operational Calibration Records**

A bound notebook is kept for each piece of equipment. This notebook contains a record of each analysis, calibration, sample analysis, and QC performed. Each of the following is assembled chronologically by instrument and stored together as a laboratory working record or entered in its entirety into the instrument notebook:

- 1) Calibration data;
- 2) Calibration verification data; and
- 3) Method blank data.

Quality Control Procedures - *continued*

Calibration Procedures - *continued*

■ **Calibration Reference Materials**

Calibration reference materials for organic analysis are a minimum 97% pure and purchased from a reputable supplier. Reference materials used to generate quality control samples (used to verify calibrations) are from a source independent of the calibration standards, or if not available from a reliable independent source, are from stock standards prepared separately from calibration standards.

Low parts per billion (ppb) level calibration standards for metals are prepared fresh daily with dilutions of parts per million (ppm) level standards. These stock standards are prepared by dilution of commercially available 1000-ppm stock solutions. Standards from a source independent from the calibration standards are used for initial calibration verification.

Records of the source of the calibration standards and QC reference materials are maintained.

Purchased stock standards are documented with certificates of analysis to insure material purity. IAL uses and reports not only calibration standards but an alternate source standard as well.

■ **Standards Preparation**

Standards are prepared as specified in the respective analytical methods. In order to assure the accuracy of standards the following guidelines are used:

- A.** The best available solvent is used
- B.** ACS reagent grade or better chemicals are used
- C.** Only Class A volumetric glassware are used
- D.** Only properly calibrated balances, pipettors and other general laboratory equipment are used
- E.** Only properly trained technicians, following established operating guidelines will handle and prepare standards.

Quality Control Procedures - *continued*

Calibration Procedures - *continued*

■ **Generation and Acceptance of a Standard Curve**

A standard calibration curve is the analysis of a series of standard solutions over a concentration range appropriate for the samples. The standard curve is a plot of the instrument response versus the known concentration. The number and concentration of calibration standards required is specific to the method and is given in the method SOP. A minimum of three standards is necessary to demonstrate linearity.

The essential characteristics evaluated for acceptance of the curve are as follows:

- A.** The degree of variation of the response factor with concentration (i.e. curvature)
- B.** The working range of the curve
- C.** The consistency of the response factor with past experience
- D.** The sensitivity of the response as it relates to detection limit and system performance
- E.** The blank bias

Measurement Traceability and Calibration

Calibrations are performed using traceable materials and mixtures. IAL purchases materials and mixtures from manufacturers capable of supplying certificates of analysis for each product. These certificates are retained by IAL. Subsequent calibration standards are verified by comparison with second-source materials. Each standard is given a unique identification number. The unique identification number is used to trace each reported analytical result through the initial calibration curve used to calculate that result, and back to the original purchased standard establishing an unbroken chain of comparison.

IAL has a strict protocol for maintaining the equipment used to produce valid and accurate results. It is a dual approach with requirements for the analytical support equipment as well as the requirements for instrument calibration.

ANALYTICAL SUPPORT EQUIPMENT

Any equipment found to be performing outside of specification would be removed from use immediately. All calibration procedures are documented and recorded as having been performed.

All refrigerators and cold storage units are monitored and checked for temperature on a daily basis. All ovens, incubators, and water baths are temperature checked daily; as well as daily monitoring of the fume hoods. All balances are calibrated daily against Class S weights. Servicing by an outside company is performed every year.

Quality Control Procedures - *continued*

Measurement Traceability and Calibration – *continued*

All thermometers used in the facility are calibrated against NIST certified thermometers in the temperature range used, at least every six months. The TCLP rotator is checked every six months. Class A glassware will be used as required.

Every day a sample is analyzed, an initial calibration, or continuing calibration verification must be performed. An initial calibration is usually performed at least on a monthly (30 days) basis. Some initial calibrations can maintain validity for a longer period while some require to be performed more frequently.

Samples not analyzed following an initial calibration curve must be preceded by continuing calibration verification. All continuing calibration procedures are designated in the Standard Operating Procedure (SOP) written for the analysis. Continuing calibrations will be performed to acceptable criteria as indicated in the method and the IAL SOP.

If the results of an initial calibration curve or a continuing calibration are outside acceptable criteria, no samples will be analyzed. Corrective action will take place and calibrations will be re-analyzed before samples are run.

Standard operating procedures for analytical methods performed by IAL include acceptance criteria for calibrations. If acceptance criteria differ between analytical method and regulation, IAL conforms to the more stringent set of applicable criteria. IAL standard operating procedures also include documentation of all laboratory procedures contributing to analytical results, in order that the events leading to each result can be reconstructed in detail.

Equipment is verified upon receipt and subject to annual checks over the entire range of use. Measurements are traceable to NIST standards (e.g. temperature, volume, and weight). NIST traceable standard equipment is used for the purpose of calibration only. Certificates for this equipment are retained by IAL. Procedures for the maintenance and verification of measuring equipment are established in IAL SOPs.

Personnel must submit demonstrations of capability before generating reportable sample results. These tests include four replicate analyses in order that the variance of the results can be statistically established as within IAL criteria.

Quality Control Procedures - *continued*

Report Generation

The analytical procedures used by the laboratory fulfill the precision and accuracy objectives, as required.

■ **Data Deliverable Reports**

Integrated Analytical Laboratories, LLC offers several different data report deliverable packages to accommodate requirements set forth by our clients and various regulating agencies. Reports can be produced as Results Only, NJDEP Reduced Deliverables, NJDEP Regulatory Deliverables, NY ASP -A and -B. The specifications for the New Jersey deliverable requirements can be found in NJAC 7:26E – Appendix A. New York specifications can be found in the NYDEC Analytical Services Protocol.

■ **Documentation Reported**

A “Results Only” laboratory data deliverable report contains, at a minimum, the following information:

- 1) Identification of the laboratory
- 2) IAL sample ID number
- 3) Client sample identification
- 4) Date sampled
- 5) Date analyzed
- 6) Date of extraction, if applicable to the verification of sample integrity
- 7) The name(s) (first initial, last initial) of the analyst(s) performing the analysis, if required
- 8) Parameters measured
- 9) Units in which each parameter is reported
- 10) Minimum Detection limits
- 11) A copy of all original documentation received with the samples

Reporting limits referred to as Method Detection Limits (MDLs), which are above the Instrument Detection Limits (IDLs), are utilized in the IAL data reports.

Quality Control Procedures - *continued*

Report Generation – continued

■ **Report Revisions**

For all report revisions and reissues involving a change in data, the revised/reissued reports are labeled accordingly and the date of the previous revision is referenced. The Quality Assurance Officer or designee reviews all reissues involving a change in data. A written justification for the change is included in the project file and sent to the client if necessary.

■ **Records Retention**

All data information required to reproduce the analytical results including instrument raw data, prep logs, worksheets, copies of hardcopy data output and other project records are stored together in a secure location. Final data reports are scanned onto a computer CD-ROM before being released to the client. The laboratory retains all project information including data reports, raw data, chain of custodies and electronic deliverables for a period of not less than five years. All items are physically destroyed or otherwise rendered unusable. IAL SOP1.0200 contains specific information regarding this requirement.

■ **Report QA Deliverables**

The standard analytical report includes no quality control documentation. However, all QC requirements are met. The elements of reports for clients needing quality control documentation are determined by the application. Some types of client required QC deliverables have elements similar to other packages, but the specific requirements should be determined before the initiation of sampling and analysis. Certain projects under regulatory review require establishment of explicit quality assurance objectives. The laboratory technical and quality assurance staff provide any information required establishing and documenting achievement of the quality assurance objectives for particular projects.

■ **Microbiological Action Response**

Action Response to Microbiological Sample Results

- Whenever a sample result exceeds the regulatory limit the Department Supervisor notifies the Customer Service Department, who immediately calls the client to arrange for resample(s). This is done on the basis of unverified MF coliform or MPN confirmed results.
- Whenever the laboratory determines the presence of fecal coliform in a drinking water sample the Department Supervisor notifies the Customer Service Department. The Customer Service Department immediately (within 24 hours) notifies either the water purveyor and the municipal health agency (for non-transient non-community and transient non-community water systems) or the water system's superintendent and the NJDEP Bureau of Safe Drinking Water (for community water systems).
- Every effort is taken by the department to eliminate the occurrence of false negative results. Positive controls are routinely analyzed, along with media comparisons between different lots, maintaining strict temperature controls and confirming "stressed" organisms in drinking water samples.

Quality Control Procedures - *continued*

Report Generation – continued

■ **Microbiological Action Response - continued**

Action Response to Microbiological QC Problems

QC response depends on the problem encountered. For example:

- 1) If any membrane filter sterility check indicates contamination, all of the data on the samples affected is rejected and a resample is requested.
- 2) Discard any batch of rinse water failing the sterility test (BHI).
- 3) If any sample bottle fails the sterility test, the bottles are rejected and returned to the manufacturer.
- 4) If Kilit ampules display any growth, the associated batch of media is discarded.
- 5) Any lot of membrane filters failing the recovery/performance test is rejected.
- 6) Any controls showing an incorrect result causes rejection of sample being tested and a resample of all work.
- 7) Analyze all media with a known positive and negative control. Discard any batch of media that fails the appropriate QC checks.

NOTE: *The Department Manager and QA Officer address all QC problems to determine the cause and corrective action indicated to prevent future occurrences. If the cause is not readily apparent, the problem is discussed with Quality Assurance Officer and the Laboratory Director and a course of action is decided upon.*

For Non-Community Systems - Ground Water Serving < 1,000 people - If the Maximum Contaminate Level has been exceeded for bacteria, the Bureau of Safe Drinking Water (609) 292-5550 must be notified by the end of the next business day and a Public Notification must be issued within 14 days.

An acute MCL occurs when:

A routine sample tests positive for E. coli or Fecal Coliform and the repeat sample tests positive for Total Coliform. Or a repeat sample tests positive for E. coli or Fecal Coliform.

The Bureau of Safe Drinking Water (609) 292-5550 must be notified before the end of the same business day, or by the end of the next business day if the detection occurs after the close of business for the state, and a Public Notification and a Public Notification must be issued.

Quality Control Procedures - *continued*

Quality Control and Data Validation

Data validation is an integral part of Integrated Analytical Laboratories, LLC QA/QC program. Data validation is performed on all analytical data report packages by qualified QC Coordinators. Each QC Coordinator is required to become familiar with every analytical testing method used at IAL.

Data is reviewed by the QC Coordinator to verify that all client requirements have been fulfilled. Verification is also performed on method requirements, reporting agency requirements and data deliverable requirements. The internal quality control checks routinely implemented by the laboratory are described in this section. This outline includes the minimum required degree of effort (the amount of quality control samples expressed as a percentage of the total number of client samples), and the control limits applied to maintain method control.

■ **QC Frequency**

The required frequency of QC samples is a function of the particular method, the particular regulatory program under which the results will be evaluated, or the particular contract requirements.

■ **Quality Control Program Elements**

The quality control program element cover both instrument and method quality control. The frequency of instrument control checks is based on the analytical batch as introduced to the instrument. For example, QC check samples and mid-range standards used for instrument calibration verification may be specified by certain methods to be introduced at the beginning, after every ten samples, and at the end of an analytical run. The frequency of method control checks, on the other hand, is based on the analytical batch as handled in the sample preparation, digestion, or extraction process.

The analytical batch is determined according to requirements of no more than 20 samples of the same or similar matrix. The method quality control samples will be selected from this batch. The minimum number of matrix spikes and laboratory duplicates associated with the samples for a batch are one per analytical batch per matrix.

The control limits for instrument control are set at levels published in the source method, or by laboratory practice if an authoritative source is not available. These tolerances for instrument operation are absolute and are not to be abrogated without the approval of the Laboratory Director and the Quality Assurance Officer. For method control elements (blank, matrix spike, laboratory duplicate or matrix spike duplicate, surrogate spike, laboratory control sample, QC check sample, and method detection limit) statistical evaluation is often the source for the control limits.

a)

Quality Control Procedures - *continued*

Quality Control and Data Validation - *continued*

■ **Method Detection Limit**

The method detection limit (MDL) is determined for all analyses annually. As the blank acceptance criteria are affected by the MDL, it is critical that the detection limit study be performed properly and regularly.

Audits

Audits measure laboratory performance and insure compliance with certification programs. There are five main types of audits: internal, external, system, report, and blind sample audits.

■ **Internal Audits**

The QA Officer or a designated alternate will, at a minimum of once per year perform a laboratory audit. A complete checklist similar in format to a state audit will be performed to verify that IAL's laboratory operations will continue to comply with the requirements of the quality system. Findings of the audit will be discussed during the monthly management meeting immediately following the completion of the audit. Department managers will be required to correct any deficiencies before the next meeting. If any deficiency noted could impact the correctness or validity of the calibrations or test results, IAL will take immediate corrective action. The QA Officer shall notify any client, in writing, which may have been affected by the findings. **Client notification will take place within 48 hours of this determination.**

■ **External Audits**

External audits are performed when certifying agencies or clients submit samples for analysis and/or conduct on-site inspections. It is IAL's policy to cooperate fully with certifying agencies. It is also IAL's policy to comply fully with system audits conducted by regulatory agencies and clients. The laboratory is involved in external performance audits conducted semi-annually by the evaluation of performance testing samples as required by NELAC certification. Additional performance audits are conducted as required by clients and state certifying agencies.

Quality Control Procedures - *continued*

Audits - *continued*

▪ **Systems Audits**

Systems audits evaluate procedures and documentation in the laboratory. Systems audits encompass all aspects of the analysis, checking for adherence to criteria in this QA plan and in the method SOP. As a minimum, items covered are sample custody, calibration history, quality control, instrument control, data reduction and validation, method start-up QC, and records. Representative analytical projects are reviewed from inception to completion.

▪ **Report Audits**

Report audits, which evaluate the correctness and appearance of the laboratory reports, are performed routinely by the QA Department. Analytical reports are audited at a rate of 95% \pm 5%.

▪ **Blind Sample Audits**

Blind sample audits are performed by submitting a sample of known characteristics through ordinary sample handling procedures and comparing the reported concentrations with the known values.

Preventative Maintenance

The objective of preventative maintenance is to produce stability and predictability in the laboratory operation. It is a management tool, which has a direct bearing on the efficiency and productivity of the laboratory. Preventative maintenance procedures are specified in each method SOP.

▪ **Instrument Maintenance**

A strict schedule of instrument maintenance is adhered to at IAL. All equipment preventative maintenance procedures are documented and detailed in the IAL SOP file, Chapter 2. SOP's are present for the maintenance of IAL instrumentation. Instrument logs for all maintenance procedures are kept in the department where the instrument is located. Qualified technicians, usually the department manager or the manufacturer's representative, perform maintenance and repairs.

Quality Control Procedures - *continued*

Procedures to Assess Data Quality

The procedures and formulas required to assess data quality and overall method performance are described in this section.

■ **Precision**

The precision of laboratory test results will be expressed as the percent relative standard deviation (% RSD) or relative percent difference (RPD). RPD is derived from the absolute difference between duplicate results, D1 and D2, divided by the mean value of the duplicates.

$$\text{RPD} = \frac{(D_1 - D_2)}{(D_1 + D_2)/2} \times 100$$

■ **Accuracy**

Accuracy for the laboratory is expressed as the average percent recovery of spiked samples.

$$\% R = \frac{\text{SSR} - \text{SR}}{\text{SA}} \times 100$$

Where:

%R = % Recovery

SSR = spiked sample result

SR = sample result

SA = amount of spike

■ **Representativeness**

Representativeness is evaluated by comparison of duplicate analyses and by the results of audits, which establish that the procedures to protect the integrity of samples are being followed.

■ **Completeness**

Completeness is evaluated by dividing the total number of verifiable data points by the maximum number of data points possible and expressing the ratio as a percent.

Quality Control Procedures - *continued*

Procedures to Assess Data Quality - *continued*

■ **Comparability**

Comparability is evaluated for most of the common analyses in the inter-laboratory performance evaluations. The EPA, state agencies, and IAL clients typically carry out these evaluations. Split samples are another form of inter-laboratory study carried out by IAL clients. This information is in the form of accuracy and precision statements, detection limit study results, and summaries of specified variations of standard methods found in the individual method SOP's used in the laboratory.

■ **Detection Limit**

For methods operating under this document, the Method Detection Limit (MDL) is defined according to Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 1, and December 1987.

"The minimum concentration that can be measured and reported with 99% confidence that the value is above zero."

It is approximately 3 times the standard deviation of a set of seven replicates at a concentration very near (within 5 times) the detection limit. The MDL is used to judge the significance of a single measurement of a future sample, and defines a limit above which false positives are very unlikely.

■ **Method Control**

Method control is based on published EPA performance criteria, on a statistical evaluation of quality control results or on provisional limits set while statistical evaluation is pending. Method control is documented as a quality control chart or tabulation. In certain instances where the method explicitly references a control limit, the referenced control limit is used unless the evaluation of the statistical control indicates that laboratory performance is significantly better than the referenced limit. As a minimum, IAL maintains control charts or tabulations for matrix spikes for accuracy, and either duplicate matrix spikes or duplicate samples for precision.

Quality Control Procedures - *continued*

Corrective Action

When problems or situations arise due to instrument malfunctions, procedural changes, high sample concentrations resulting in contamination, or any other factors, a problem resolution system has been established.

When an Analyst is presented with a situation deviating from the norm, he/she is required to initially determine the cause and possible rectification of the problem (i.e.: instrument recalibration, standards preparation, dirty glassware, etc.). If the situation could cause a deviation from established standard operating procedures, the Analyst is required to inform the Department Manager.

The Department Manager will establish the best course of action resulting from the information. If the Department Manager cannot establish a course of action within the guidelines of the standard operating procedures, he/she will consult with a QA Coordinator.

The QA Coordinator will if necessary, research the corrective action deemed necessary for the situation. Upon completion of information gathering, the QA Coordinator will discuss the situation with the Department Manager and determine a course of action.

Occasionally a situation may present itself that would need a more intensive evaluation. Under these circumstances, the QA Coordinator and Department Manager would meet with the Quality Assurance Officer and Laboratory Director to decide the best conclusion to the situation.

Any changes to the standard procedures are discussed and instituted only after full review by the QA Officer, Laboratory Director, Department Managers, and appropriate personnel before implementation. All concerned personnel are notified in writing of all changes approved by the applicable personnel.

Any procedural changes or non-conformances would be carefully documented in a case summary for the project.

The QA Officer has the responsibility of responding to and addressing all quality assurance situations that may arise.

This person will discuss and provide feedback on all quality assurance issues to the appropriate personnel as well as the Laboratory Director.

Quality Control Procedures - *continued*

Corrective Action - *continued*

The QA Officer will provide notification to personnel of the results pertaining to all PE analyses, internal and external audits, and any problems found in the data review process.

The QA Officer will maintain status reports and documentation of PE results, audits and QA procedural changes for a summary presentation to the company president on a periodic basis.

Internal QA Inspection/Corrective Action Procedures

To ensure the reliability and accuracy of the produced data, IAL has placed several systems into effect under the guidance of the predetermined analysis methods.

- **Specific Instrument QC**

As required by 40 CFR and SW-846:

- Tuning criteria
- Instrument Calibration criteria
- Quality Control Check Sample criteria
- Reagent (Method) Blank criteria
- Surrogate/Analyte Recovery criteria
- Matrix Spike and Matrix Spike Duplicates
- Method Accuracy Studies: regular assessment studies (Shewhart Charts)
- Internal Standard Area and Retention Time Monitoring (for GC/MS analyses)
- Precision and Accuracy Studies

- **Documentation Procedures**

As required by SW-846, NJDEP deliverables:

- Chains of Custody
- Sample Receipt Verification Forms
- Analysis Request Forms
- Bottle/ Sampling Orders
- Laboratory Notebooks (bound and paginated)
- Reporting Forms (bound and paginated)

Quality Control Procedures - *continued*

Internal QA Inspection/Corrective Action Procedures - *continued*

■ **Data Review & Validation**

As required by SW-846, 40 CFR, Standard Methods for the Examination of Water and Wastewater

A standardized system of data review and validation has been implemented by IAL to assure the accuracy and validity of the processed data.

■ **Quality Assurance**

As required for state certifications and in-house evaluation procedures, Standard Methods for the Examination of Water and Wastewater

Performance Evaluation Studies: participate in PE studies as required by NELAC at a minimum of two times per year.

Method Blank Monitoring: blank data is kept on file to evaluate reagent-free water status over a long-term period.

Internal Audits: annual internal audits performed by the QA Officer or designee to verify compliance with all established standard operating procedures.

External Audits: participate in the audits by the NJDEP for NELAC certification as well as client on-site evaluations.

■ **Procedures for Controlling, Estimating and Correcting Data Errors**

Integrated Analytical Laboratories, LLC (IAL) takes every effort to minimize data errors within sample analyses, results reporting and document control. The following is a list of procedures used in order to achieve this goal.

- 1) Shewhart Charts are used to establish and maintain upper and lower control limits.
- 2) Method blanks are prepared and analyzed for each set of samples extracted or digested.
- 3) Quality Control samples are analyzed with all parameters to ensure accuracy.
- 4) Matrix Spike and Matrix Spike Duplicate samples are analyzed at a minimum of every 10 - 20% of samples in order to ensure precision.

Quality Control Procedures - *continued*

Internal QA Inspection/Corrective Action Procedures - *continued*

■ **Procedures for Controlling, Estimating and Correcting Data Errors – *continued***

- 1) In-house "Blind" samples are introduced into the system by the Quality Assurance department. These samples have values known only to the QA department. Once samples have been analyzed, the results are submitted to the QA Department for review. The QA compares the results submitted to the true values, and notifies the appropriate department managers if any errors or potential problems exist.
- 2) Proficiency Evaluation Samples are analyzed at a minimum of two times per year as well as other evaluation samples required for special service certifications.

■ **System Checks**

A system of checks is used to evaluate the data before sending it to the client. The analyst, to assure procedural and client requirements have been met, reviews all data before submittal to the department supervisor. The department supervisor performs an overview of the data, before submission to the Report Generation Department. After the report is generated, the Quality Control Department reviews the report in its entirety. If any errors are detected in the data, the QC Department will confirm or revise the report as necessary. The Laboratory Director performs a brief overview of the report. At this point, he will sign the report package for release to the client.

■ **Procedure for Tracking Analytical Data**

IAL maintains two types of Data Tracking Systems on in-house projects.

1) Computer Systems:

- a. An Intranet System is available on all IAL computers connected to a central file system. Until a hardcopy of the project tracking system is available for distribution, employees can access the Intranet to view new project information.
- b. A Sample Tracking system is also available through the central file system, which can be accessed from any IAL computer. As projects are revised and updated with new client information, this program is automatically changed to keep employees aware of the situation.

Quality Control Procedures - *continued*

Procedure for Tracking Analytical Data - continued

1) Data Traveler Sheets:

- a.** Data Traveler Sheets are generated for each department for each project for every sample received at IAL. These traveler sheets serve as a hard copy for the project tracking mechanism. The Data Traveler Sheets contain all of the essential information needed to complete a client project. The following information is contained on these sheets:

- 1)** IAL Lab Case Number
- 2)** IAL Sample ID Numbers
- 3)** Client Information
- 4)** Client Sample Information
- 5)** Date Received
- 6)** Date Results due
- 7)** Parameter (s) to be analyzed
- 8)** Notes, Comments and Special Client Information

Upon arrival into the department, the information is logged onto the department Log-In Sheet. The Log-In Sheet serves as a progress record for the samples and as an updating device for the Tracking Sheets.

All departments use the Data Traveler Sheets in order to unify the data tracking system. When the project is complete, the data is reviewed by the department manager and submitted to the Report Generation department.

■ Document Control System

The Document Control System used by Integrated Analytical Laboratories is a simple, effective procedure of assigning each item a control number, a revision number, and a revision date. The following Control Numbers are used for IAL documents:

IALQAM	QA Manual
IALSOP	Standard Operation Procedure
IALSOQ	Statement of Qualifications

In addition, all QA Manuals and Standard Operating Procedures (SOPs) are signed at a minimum by the Laboratory Director and the QA Officer. The author also signs their respective SOPs. Every time a change of any kind is made, the revision number and revision date are documented.

Example:

IALSOP1.08
Rev 03
07-Apr-00

Quality Control Procedures - *continued*

Internal QA Inspection/Corrective Action Procedures - *continued*

■ **Procedure for insuring security of database**

All raw data from each analytical department is stored on a back up system, which consists of magnetic tape, floppy disks, or hard copy. All of these back up systems are stored in a locked storage facility equipped with smoke detectors and a fire extinguishing system. All documents in the report generation system are archived on floppy disks for storage and recovery in the event of a system failure.

All departments back up their information at least once every 24 hours. Two copies of the backed up data are retained. One copy is kept in the department, while the manager or the MIS department retains the other.

The corrective action scheme for investigating suspected data quality problems is presented in this section. The means by which the laboratory discovers, tracks, and completes the investigation of problems is discussed.

■ **Initiation and Completion of Corrective Action**

The investigation of suspected data quality problems is initiated consequently of quality control criteria being exceeded, audit findings indicating systematic problems, or because of client inquiries. **Corrective actions will be completed before analyzing any additional samples when quality control criteria have been exceeded. Any audit finding corrective actions will be evaluated during a managerial review with a completion time frame of 30, 60, 90 days or 1 year established. Corrective action will not exceed 1 year. All client inquiries will result in corrective action taking place within 7 days of notification.**

■ **Feedback Systems**

The Quality Assurance Officer serves as a focal point for comments concerning problems. By means of accuracy and precision statements and the system report, audits, problems that may have been overlooked by the laboratory supervisors in the course of daily work can be detected and corrected. All client complaints regarding data quality and operational quality (for example turn-around times) are reported to the Laboratory Director and to the Quality Assurance office.

Quality Control Procedures - *continued*

Internal QA Inspection/Corrective Action Procedures - continued

■ **Customer Services Division**

IAL utilizes a comprehensive and detailed oriented Customer Services Department. The employees working in this department do so very closely with all of IAL's customers. The Customer Services Representatives are available to talk to any of our clients at any time of the day during regular business hours. These Representatives will be the initial stop for client bottle orders, courier service, and fast-track turn around requirements, data concerns, and quality issues. All Customer Services Representatives maintain detailed telephone logs to record all activities for a client call. Any client concerns or complaints are taken very seriously at IAL and given top priority in the daily routine. If the Customer Services Representatives cannot resolve the situation to the client's satisfaction, they will consult the Laboratory Director, the QA Officer, or the client's Account Manager. Full resolution of the situation will be achieved.

Quality Assurance Reporting

Quality assurance reporting documents the quality control and quality assurance activities in the laboratory and provides a communication and accountability link among analysts, management, and clients.

Sample Preservation, Container, Volume, and Holding Time

General Chemistry – Potable and Waste Waters

Parameter	Method	Container	Bottles Sent	Preservation	Holding Time
Acidity	305.1	P, G	250ml P	Cool, 4°C	14 days
Alkalinity	2320B	P, G	500ml P	Cool, 4°C	14 days
Ammonia	350.2+.1	P, G	500ml P aq	H ₂ SO ₄ <2, Cool, 4°C	28 days
BOD	405.1	P, G	500ml P	Cool, 4°C	48 hours
Bromide	320.1	P, G	950ml P	None required	28 days
Carbonate	4500CO ₂ D	P, G	500ml P	Cool, 4°C	14 days
Carbon Dioxide	4500CO ₂ D	P, G	500ml P	Cool, 4°C	14 days
cBOD	5210B	P, G	500ml P	Cool, 4°C	48 hours
Chloride	4500Cld/ 325.3,.1,.2	PIG	250ml P	None required	28 days
Chlorine Demand	2350B	P, G	4x500ml P	None Required	A.I.
Chlorine Residual	4500Clg	P, G	500ml P	None Required	A.I.
COD	HACH	P, G	250ml P	H ₂ SO ₄ <2, Cool, 4°C	28 days
Color	2120B	P, G	250ml P	Cool, 4°C	48 hours
Conductance, Specific	120.1, 2510B	P, G	250ml P	Cool, 4°C	28 days
Corrosivity, Langlier Index	2330B	P, G	950ml P	Cool, 4°C	7 days
Cyanide	335.4/335.3,.2	P, G	500ml P	NaOH>12, Cool, 4°C Ascorbic Acid	14 days, 24hr if sulfide present
Cyanide, Amenable	335.1	P, G	500ml P	NaOH>12, Cool, 4°C Ascorbic Acid	14 days, 24hr if sulfide present
Dissolved Organic Carbon (DOC)	415.1	P, G	250 ml P	H ₂ SO ₄ <2, Cool, 4°C	28 days
Flashpoint	1010	P, G	250ml P	None	Not specified
Fluoride	4500Fc/ 4500Fbc	P	500ml P	None required	28 days
Hardness	2340B	P, G	250ml P	HNO ₃ <2(prefer), H ₂ SO ₄ <2	6 Months
H ₂ S	4500-S2-H	P, G	500ml P	Cool, 4°C	Refer to pH, Conductance, TDS.
Iodide	4500-I-B	P, G	250ml P	None required	28 days
Nitrogen, TKN	351.2	P, G	500ml P	H ₂ SO ₄ <2, Cool, 4°C	28 days
Nitrogen, Total	351.1, .2, .3, .4	P, G	950ml P	H ₂ SO ₄ <2, Cool, 4°C	28 days
Nitrogen, Organic	351.1, .2, .3, .4	P, G	950ml P	H ₂ SO ₄ <2, Cool, 4°C	28 days
Nitrogen, Nitrate (NO ₃)+Nitrite (NO ₂)	4500NO ₃ F	P, G	250 ml P	H ₂ SO ₄ <2, Cool, 4°C	28 days
Nitrogen, Nitrite (NO ₂)	4500NO ₃ F/ 4540-085	P, G	250ml P	Cool, 4°C	48 hours
Nitrogen, Nitrate (NO ₃)	4500NO ₃ F	P, G	250 ml P	Cool, 4°C	48 hours
Odor	2150B	G	950ml P	na	A.I.
Oil & Grease	413.1	G, Teflon	2x950ml Amber	HCl or H ₂ SO ₄ <2, Cool, 4°C	28 days
Oil & Grease	1664A	G, Teflon	2x950ml Amber	HCl<2, Cool, 4°C	28 days
Oxygen, Dissolved	4500Oc, 360.1	G	500ml P	None Required	A.I.
Petroleum Hydrocarbons	418.1	G, Teflon	2x950ml Amber	HCl<2, Cool, 4°C	7 days
pH	150.1,.2	P, G	250ml P	NA	A.I.
Phenols	420.1,.2	G, Teflon	500ml Amber	H ₂ SO ₄ <2, Cool, 4°C	28 days
Phosphate, Ortho	365.2	P, G	250ml P	Filter, Cool, 4°C	48 hours
Phosphorus, Total	365.2+.3	P, G	500ml P	H ₂ SO ₄ <2, Cool, 4°C	28 days
Solids, Dissolved (TDS) (Residue-Filterable)	2540C	P, G	500ml P	Cool, 4°C	7 days
Solids, Settleable (Residue-Settleable)	2540F	P, G	2x950ml P	Cool, 4°C	48 hours
Solids, Suspended (TSS)(Residue-Nonfilterable)	160.2/2540C	P, G	500ml P	Cool, 4°C	7 days
Solids, Total (Residue-Total)	160.3	P, G	500ml P	Cool, 4°C	7 days
Solids, Volatile	160.4	P, G	500ml P	Cool, 4°C	7 days
Solids, Total, Fixed & Volatile	2540G	P, G	500ml P	Cool, 4°C	7 days
Sulfate	375.2/375.4	P, G	250 ml P	Cool, 4°C	28 days
Sulfide	376.1	P, G	500ml P	NaOH>9 + Zn Acetate, Cool, 4°C	7 days
Sulfite	377.1/4500SO ₃ b	P, G	250 ml P	EDTA fixative	A.I.
Surfactants, MBAS, Foaming Agents	5540C/425.1	P, G	500ml P	Cool, 4°C	48 hours
Total Organic Carbon (TOC)	415.1	P, G	250ml P	H ₂ SO ₄ or HCl<2, Cool, 4°C	28 days
Total Organic Halides (TOX)	9020 B	G, Teflon	250ml Amber	H ₂ SO ₄ <2, Cool, 4°C Z.H.S.	28 days
Turbidity	180.1/2130B	P, G	250ml P	Cool, 4°C	48 hours
Petroleum Hydrocarbons	418.1	G, Teflon	2x950ml Amber	H ₂ SO ₄ <2, Cool, 4°C	7 days

Sample Preservation, Container, Volume, and Holding Time - *continued*

Metals – Potable and Waste Waters

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
Wastewater metals	200.7/200.8	P	250ml P	HNO ₃ <2	180 days
Potable water metals	200.7/200.8	P	250ml P	HNO ₃ <2	180 days
Mercury	245.1	P	250ml P	HNO ₃ <2	28 days
Mercury	245.2	P	250ml P	HNO ₃ <2	28 days
Hexavalent Chromium	3500CrD	P	500ml P	Cool, 4°C	24 hours

Microbiological – Potable, Waste Waters, and Soils & Wastes

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
Total Coliform	9221D	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Total Coliform	9222B	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Total Coliform	9221B	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Total Coliform	9131	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Total Coliform	9132	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Total Coliform + E Coli	9223B +UV	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Fecal Coliform	9222B	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Fecal Coliform	9221B or D	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Fecal Coliform	9221E	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Fecal Coliform	9222D	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Fecal Streptococci, Enterococci	9230B	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Fecal Streptococci, Enterococci	9230C	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Fecal Streptococci	EPA p. 143	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Escherichia Coli	9222B&9221B (3)a(3)+MUG	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Escherichia Coli	9213 D	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Escherichia Coli	1103.1	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Fecal Strep		P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Heterotrophic Bacteria	9215B	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Heterotrophic Plate Count	9215 B	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Heterotrophic Plate Count	9215 C	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Heterotrophic Plate Count	9215 D	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Pseudomonas aeruginosa	9213 F	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Pseudomonas aeruginosa	9213 E	P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Total Plate Count		P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours
Other		P, G Sterile	100ml P, Sterile	Na ₂ S ₂ O ₃ , Cool, 4°C	6 hours

Organics (GC and GCMS) – Potable and Waste Waters

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
Volatiles (Potable)	524.2	G, Teflon, Sep.	2x40ml VO	HCl<2, Cool 4°C	14 days
Volatiles (WasteWater)	624	G, Teflon, Sep.	2x40ml VO	HCl<2, Cool 4°C	14 days
Volatiles, Unpreserved	524.2/624	G, Teflon, Sep.	2x40ml VO	Cool, 4°C	7 days
Trihalomethanes (Potable)	524.2	G, Teflon, Sep.	2x40ml VO	Ascorbic Acid/HCl, Cool 4°C	14 days
Trihalomethanes (WasteWater)	624	G, Teflon, Sep.	2x40ml VO	Ascorbic Acid/HCl, Cool 4°C	14 days
Volatiles: Headspace	3810	G, Teflon, Sep.	2x40ml VO	Cool, 4°C	Not specified (14 days)
Volatiles: Non-halogenated, alcohols	8015B	G, Teflon, Sep.	2x40ml VO	Cool, 4°C	7 days
Volatiles: TVH/GRO	624 mod	G, Teflon, Sep.	2x40ml VO	HCl<2, Cool 4°C	14 days
Base Neutrals	625	G, Teflon	2x950ml Amber	Cool, 4°C	7 days extraction, 40 days analysis
Acid Extractables	625	G, Teflon	2x950ml Amber	Cool, 4°C	7 days extraction, 40 days analysis
Pesticides/PCB's	608	G, Teflon	2x950ml Amber	Cool, 4°C	7 days extraction, 40 days analysis
Pesticides	8081A	G, Teflon	2x950ml Amber	Cool, 4°C	7 days extraction, 40 days analysis
Herbicides	6640B	G, Teflon	2x950ml Amber	Cool, 4°C	7 days extraction, 40 days analysis
TPH Gasoline Range Organic	8015B	G	2x950ml Amber	Cool, 4°C	7 days extraction, 40 days analysis
TPH Diesel Range Organic	8015B	G, Teflon	2x950ml Amber	Cool, 4°C	7 days extraction, 40 days analysis

Sample Preservation, Container, Volume, and Holding Time - continued**General Chemistry – Solids and Hazardous Waste**

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
Ammonia	350.2+1	P, G	2oz G	H ₂ SO ₄ <2, Cool, 4°C	28 days
Nitrogen, Nitrate (NO ₃)+Nitrite (NO ₂)	4500NO3F	P, G	2oz G	H ₂ SO ₄ <2, Cool, 4°C	28 days
Nitrogen, Nitrite (NO ₂)	4500NO3F/ 4540-085	P, G	2oz G	Cool, 4°C	48 hours
Nitrogen, Nitrate (NO ₃)	4500NO3F	P, G	2oz G	Cool, 4°C	48 hours
Nitrogen, TKN	351.2	P, G	2oz G	H ₂ SO ₄ <2, Cool, 4°C	28 days
Nitrogen, Total	351.1, .2, .3, .4	P, G	2oz G	H ₂ SO ₄ <2, Cool, 4°C	28 days
Nitrogen, Organic	351.1, .2, .3, .4	P, G	2oz G	H ₂ SO ₄ <2, Cool, 4°C	28 days
Cation Exchange Capacity	9081	P, G	2oz G	None required	Not specified
Chloride	9250/9251	P, G	2oz G	None required	Not specified
Cyanide, Total	9014	P, G	2oz G	Cool, 4°C, Ascorbic acid	14 days
Cyanide, Amenable	9012A	P, G	2oz G	Cool, 4°C, Ascorbic acid	14 days
Cyanide, Reactive	7.3.3.2	Not specified	2oz G	Cool, 4°C, adjust pH to base upon rec.	14 days
Ignitability	1010/1030	P, G	2oz G	None Required	Not specified
Paint Filter (Free Liquid)	9095	P, G	4oz G	None required	Not specified
PH	9040B/9045C	P, G	2oz G	None required	A.I.
Phenols	9065/9066	G, Teflon	4oz G	H ₂ SO ₄ <2, Cool, 4°C Z.H.S.	28 days
Phosphate, Ortho	365.2	P, G	4oz G	Filter, Cool, 4°C	48 hours
Phosphorus, Total	365.2+3	P, G	4oz G	H ₂ SO ₄ <2, Cool, 4°C	28 days
Oil & Grease-HEM	1664A/9071B	G		Cool, 4°C	Not specified
Solids, Total (Residue-Total)	160.3	P, G	2oz	Cool, 4°C	7 days
Solids, Volatile	160.4	P, G	2oz	Cool, 4°C	7 days
Sulfides	9034	P, G		Cool 4°C, Zinc Acetate	7 days
Sulfate (Turbidimetric-no soils)	9038	P, G	2oz G	Cool, 4°C	Not specified
Specific Conductance	9050A	P, G	2oz G	Cool, 4°C	28 days
Sulfide, Reactive	7.3.4.2	Not specified	2oz G	NaOH>12, Cool, 4°C, Zinc Acetate	7 days
Total Organic Carbons	Lloyd Kahn	G, Teflon	2oz Teflon	Cool, 4°C	
Total Organic Halides (TOX)	9020B	G, Teflon	2oz G	H ₂ SO ₄ <2, Cool, 4°C Z.H.S.	7 days
Extractable Organic Halides (EOX)	9023	Amber G, Teflon		Cool, 4°C	28 days
Petroleum Hydrocarbons	418.1m	G, Teflon	2oz G	H ₂ SO ₄ <2, Cool, 4°C	7 days

Metals – Solids and Hazardous Waste

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
Metals (except mercury)	6020	P, G	2oz G	Cool, 4°C	6 months
Metals (except mercury)	6010B	P, G	2oz G	Cool, 4°C	6 months
Mercury	7470A/7471A	P, G	2oz G	Cool, 4°C	28 days
Hexavalent Chromium	7196A	P, G	2oz G	Cool, 4°C	30 day extraction, 4 days analysis

Organics (GC and GCMS) – Solids and Hazardous Waste

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
Volatiles: Methanol preserved soils	5035/8260B	G	2oz Teflon	25ml methanol/surrogate	14 days
Volatiles: Low conc. (PA soils)	5035/8260B	G, Teflon sep.	2oz Teflon	Sodium bisulfate soln	14 days
Volatiles: High conc. (PA soils)	5035/8260B	G, Teflon sep.	2oz Teflon	25ml methanol/surrogate	14 days
Volatiles: EnCore samplers	5035/8260B	Encore	na	Repack within 48hr of rcpt @ lab	14 days
Volatiles: Unpreserved soils	8260B	G	2oz Teflon	Cool, 4°C	14 days
Volatiles: Non halogenated;	8015B	G, Teflon	2oz Teflon	Cool, 4°C	Not specified (14 days)
Base Neutrals	8270C	G, Teflon	8 oz G	Cool, 4°C	14 day extraction, 40 days analysis
Acid Extractables	8270C	G, Teflon	8 oz G	Cool, 4°C	14 day extraction, 40 days analysis
PCB's	8082	G, Teflon	8 oz G	Cool, 4°C	14 day extraction, 40 days analysis
Pesticides	8081A	G, Teflon	8 oz G	Cool, 4°C	14 day extraction, 40 days analysis
Herbicides	8151A	G, Teflon	8 oz G	Cool, 4°C	14 day extraction, 40 days analysis
TPH Gasoline Range Organic	8015B	G	4 oz G	Cool, 4°C	14 day extraction, 40 days analysis
TPH Diesel Range Organic	8015B	G, Teflon	8 oz G	Cool, 4°C	14 day extraction, 40 days analysis

Sample Preservation, Container, Volume, and Holding Time - *continued*

Priority Pollutant Package – Potable and Waste Waters

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
Volatiles	524.2/624	G, Teflon Sep.	2x40ml VO	HCl<2, Cool 4°C	14 days
Acid/Base Neutrals	625	G, Teflon Cap	2x950ml amber	Cool, 4°C	7 days extraction, 40 days analysis
Pesticides/PCB's	608	G, Teflon Cap	2x950ml amber	Cool, 4°C	7 days extraction, 40 days analysis
Metals	200.7/200.8	P	250ml P	HNO ₃ <2, Cool 4°C	180 days (Hg 28 days)
Cyanide	335.4/335.3,.2	P, G	500ml P	NaOH>12, Cool, 4°C, Ascorbic Acid	14 days, 24hr if sulfide present
Phenols	420.1,.2	G, Teflon	500ml Amber	H ₂ SO ₄ <2, Cool, 4°C	28 days

Toxicity Characteristic Leaching Procedure (TCLP) – Waters/Wet Sludge (<50% Solids)

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
TCLP Volatile Organics	1311/624	G, Teflon	2oz Teflon	Cool, 4°C	14 days leach, 14 days analysis
TCLP Acid Extractables/Base Neutrals/Metals	1311/625, 200.7/200.8	G, Teflon	8 oz G	Cool, 4°C	BNA: 14 days leach, 7 days extraction, 40 days analysis. Metals (-Hg): 180 days leach, 180 days analysis. Hg: 28 days leach, 28 days analysis.
TCLP Pesticides/Herbicides	1311/8081A, 8151A	G, Teflon	8 oz G	Cool, 4°C	14 days leach, 7 days extraction, 40 days analysis.
TCLP Cyanide, Fluoride	1311	G, Teflon	8 oz G	Cool, 4°C	14 days leach, 14 days analysis
PCB's (on intact sample)	8082	G, Teflon	8 oz G	Cool, 4°C	7 days extraction, 40 days analysis
Ignitability, Sulfide/Cyanide Reactivity		G, Teflon	8 oz G	Cool, 4°C	14 days analysis

Toxicity Characteristic Leaching Procedure (TCLP) – Waters/Wet Sludge (>50% Solids)

Parameter	Method	Container	Bottles sent	Preservation	Holding Time
TCLP Volatile Organics	1311/624	G, Teflon	3X40ml VO	HCl<2, Cool 4°C	14 days leach/14 days analysis.
TCLP Acid Extractables	1311/625	G, Teflon	2x950ml amber	Cool, 4°C	7 days leach/7 days extract/40 days analysis
TCLP Base Neutral Extractables	1311/625	G, Teflon	2x950ml amber	Cool, 4°C	7 days leach/7 days extract/40 days analysis
TCLP Metals	1311/200.7, 200.8	G, Teflon	950 ml P	Cool, 4°C	Metals (-Hg): 180 days leach, 180 days analysis. Hg: 28 days leach, 28 days analysis.
TCLP Pesticides/Herbicides	1311/8081A, 8151A	G, Teflon	2x950ml amber	Cool, 4°C	7 days leach/7 days extract/40 days analysis
TCLP Cyanide		G, Teflon	500ml P	Cool, 4°C	14 days leach/14 days analysis
PCB's	8082	G, Teflon	2x950ml amber	Cool, 4°C	7 days extraction/40 days analysis
Ignitability, Sulfide/Cyanide Reactivity		G, Teflon	500ml P	Cool, 4°C	14 days analysis.

TABLE KEY:

P	Plastic	Z.H.S.	Zero Head Space
G	Glass	A.I.	Analyze Immediately
Amber	Amber Glass Jar	Na	not applicable

IAL Preservative Guide

IDENTIFICATION:

● RED	Nitric Acid (HNO ₃)	1 to 1 Concentration
● YELLOW	Sulfuric Acid (H ₂ SO ₄)	1 to 1 Concentration
● BLUE	Ascorbic Acid (NaOH)	10 N Concentration
● GREEN	Hydrochloric Acid (HCl)	1 to 1 Concentration

Appendix A: Forms

- 1) Chain of Custody
- 2) Glassware Order Form
- 3) Request for Expedited Turnaround Times
- 4) Sample Receipt Verification

Fax # (973) 989-5288

273 Franklin Rd
Randolph, NJ 07869

REPORTING

Name:	Fax to:
	Fax #:
Address:	Report to:
	Address:
Telephone #:	Invoice to:
Fax #:	Address:
Project Name:	
Project Manager:	
Reference ID#:	PO#:

SAMPLE INFORMATION

SAMPLE MATRIX		
W - Waste	SL - Sludge	A - Aqueous
O - Oil	X - Other	S - Soil
GW - Groundwater		SOL - Solid

[illegible]

Print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature	Date	Time	Signature
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

Turnaround Time

<u>Conditional / TPHC</u>							Report Format
24 hr*	48 hr	72 hr	1 wk	NA	Other:	<div></div>	Results Only
<u>Verbal/Fax</u>							Reduced
24 hr*	48 hr*	72 hr*	1 wk*	2 wk	Other:	<div></div>	Regulatory
<u>Hard Copy</u>							SRP Disk**:
72 hr*	1 wk*	2 wk*	3 wk	Other:	<div></div>		Other:
*Prior to sample arrival, Lab notification is required.							

ANALYTICAL PARAMETERS / PRESERVATIVES ** Circle format required

[illegible]

Comments:

Lab Case #

PAGE: OF

INTEGRATED ANALYTICAL LABS
GLASSWARE ORDER

Fax to: IAL (973) 989-5288

Questions ?: Call (973) 361-4252

CLIENT/CO. NAME: _____

SHIP TO: _____

PROJECT #/NAME: _____

PROJECT MANAGER: _____

REQUESTED BY: _____

EXPECTED SAMPLING DATE: _____

Turn Around Time Needed: _____

SAMPLE ARRIVAL (Please confirm pick up with laboratory): _____

NO. OF SAMPLES/MATRIX <small>(A= Aqueous) (S= Soil) (O=Other: Describe)</small>	PARAMETER TO BE ANALYZED	(CHECK IF NEEDED)		TO BE COMPLETED BY LAB	
		FIELD	TRIP	# OF CONTAINERS, SIZE AND TYPE REQUIRED FOR EACH SAMPLE	PRESERVATIVE (IF ANY)
		BLANKS (FB)	BLANKS (TB)		
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: _____

FOR LAB USE ONLY: _____

Received by: _____

Date Prepared: _____

Date/Time: _____

Order Prepared by: _____

Date Shipped/Delivered: _____

UPS #(If any): _____

ITEMS INCLUDED:

- | | | |
|---|--|---|
| <input type="checkbox"/> Chain of Custody | <input type="checkbox"/> Zip Lock Bag | <input type="checkbox"/> SCALE |
| <input type="checkbox"/> Labels for Bottles | <input type="checkbox"/> Custody Seals | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Cooler w/Ice Pack | <input type="checkbox"/> DI Water for Blanks | <input type="checkbox"/> Separate Preservatives (If required) |

*** NOTE:**

*** NOTE: Some tests have short holding times.**

Please check with the lab prior to arrival so holding times DO NOT expire.

RUSH

RUSH #

R00001

CASE #

IAL EXPEDITED TURNAROUND FORM

- ☐ **New Job**
- ☐ **Job Revised**
- ☐ **Job Delayed**
- ☐ **Job Cancelled**

Client/Project: _____

Client Contact:

Sample Arrival Via:

PM/Notified By: _____

- Report Type

- ☐ Standard
- ☒ Reduced
- ☐ Regulatory

Expected Sample Arrival (Day/Date/Time):

Delayed Arrival:

Results Due (Day/Date/Time):

Delayed Results Due:

Extraction Due: GC TCLP GC/MS

of Samples

S A X

If VO Analysis: Approved
MeOH? 624/8260? By

**Alternate
Date and
Approval**

[illegible]

Special Notes (Including Limit Information):

Sampling Event/Project	Complete	Incomplete
------------------------	----------	------------

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO:

0001

CLIENT:

COOLER TEMPERATURE: 2° - 6°C: _____ (See Chain of Custody)

CHAIN OF CUSTODY:

COMPLETE / INCOMPLETE

Comments: _____

Sample Bottles Intact:

Comments: _____

Sample Labels Intact/ Correct:

Sufficient Sample Volume:

Correct bottles/ preservative:

Samples received in

holding time/ prep time:

Headspace/ bubbles in voa samples:

Samples to be subcontracted:

Preserved Sample pH checked:

(Excluding voa samples)

KEY

✓ = YES

✗ = NO

✓ = N/A

ADDITIONAL COMMENTS: _____

SAMPLE(S) VERIFIED BY:

INITIAL

DATE

CORRECTIVE ACTION REQUIRED:

YES

NO

CLIENT NOTIFIED:

YES

Date/ Time: _____

NO

PROJECT CONTACT: _____

SUBCONTRACTED LAB: _____

DATE SHIPPED: _____

CORRECTIVE ACTION BY CLIENT: _____

CORRECTIVE ACTION TAKEN: _____

CONCLUSION: _____

Corrective Action taken by:

INITIAL

DATE

Appendix B: Instrumentation

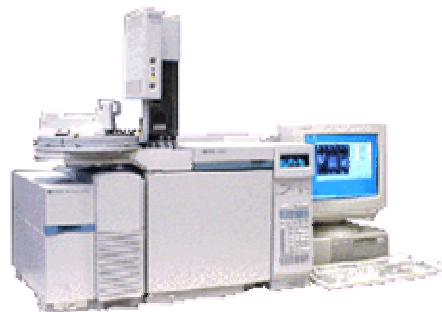


High Performance Liquid Chromatography (HPLC)

- Two (2) Waters HPLC with PDA, EC and UV Detectors with Millennium 32 Software

Gas Chromatography / Mass Spectrometry (GC/MS)

- One (1) Agilent 6890 Gas Chromatograph/ 5975 Mass Spectrometer with Tekmar 3100 and Varian Archon Auto Sampler
- One (1) Agilent 6890 Gas Chromatograph/ 5973 Mass Spectrometer with Tekmar Velocity XPT / Solatek 7200 Auto Sampler
- Four (4) Agilent 6890 Gas Chromatograph/ 5973 Mass Spectrometers with O.I. 4560 and Varian Archon Auto Samplers
- Two (2) Agilent 6890 Gas Chromatograph/ 5973 Mass Spectrometers with 7683 Auto Samplers



Gas Chromatography

- Two (2) Agilent 6890 Gas Chromatographs with FID Detector and 7683 Auto Samplers
- One (1) Agilent 6890 Gas Chromatograph with FID Detector
- Two (2) HP 5890 Gas Chromatographs with FID Detectors, Tekmar 7000/7050 Head Space Auto Samplers and O.I. 4560/4551 Auto Samplers
- Three (3) Agilent 6890 Gas Chromatographs with Dual Micro-ECD Detectors and 7683 Auto Samplers
- One (1) HP 5890 Gas Chromatograph with dual ECD Detectors and 7673 Auto Sampler
- One (1) Varian 3400 Gas Chromatograph with dual ECD Detectors and CTC A200S Auto Sampler



Appendix B: Instrumentation - *continued*



Metals

- Two (2) Hewlett Packard 4500 ICP Mass Spectrometers
- One (1) Thermo Iris Intrepid II XDL Spectro ICP Spectrophotometer
- One (1) Perkin Elmer AAnalyst 100 Atomic Absorption Spectrophotometer (Hg) Cold Vapor

Extraction / Preparation

- One (1) Dionex Pressure Fluid Extractor
- Three (3) Zymark Turbo Vap Concentrators
- Six (6) Position Lab-Line Multi-Unit Extraction Heater
- Twelve (12) Millipore Zero Headspace Extraction Vessels
- Two (2) Four Position Millipore Rotary Agitators
- Two (2) Millipore Positive Pressure Filtration Unit
- Ten (10) Position TCLP Extraction Rotary Agitators
- Four (4) Tekmar Sonic Disruptor
- Three (3) Environmental Express Hot Block Metals Digestors



General Chemistry

- One (1) LACHAT QuikChem Autoanalyzer
- One (1) Denver Instruments pH Meter
- One (1) Labconco Micro Digestor
- One (1) Mettler PB 302 Balance
- One (1) HACH One pH Meter
- One (1) Blue-M Stabil-Therm Gravity Oven
- One (1) Barnstead 62700 Muffle Furnace (TVS, % Ash)
- One (1) Fisher Isotemp Oven
- Two (2) Dessicators
- One (1) Boekel Flash Point Tester 152800
- Two (2) Ten Position Midi-Cyanide Distillation Apparatus
- One (1) YSI Dissolved Oxygen Meter
- One (1) Perkin Elmer Fourier Transform Infra Red Spectrophotometer
- One (1) HACH UV Spectrophotometer DR/3000
- One (1) YSI Conductivity Meter
- One (1) Tekmar Phoenix 8000 TOC Analyzer
- One (1) Sartorius BP 400 Top Loading Analytical Balance
- One (1) Sartorius Analytical Balance
- One (1) VWR Turbidity Meter



Appendix B: Instrumentation - *continued*

Microbiology

- One (1) Incubator – Bellco Model BRPO 821
- One (1) Binocular (dissection) microscope – Southern Precision Instruments Model 1891
- One (1) Entech Ultraviolet Light (Longwave-Black light) UVL28
- One (1) Ultraviolet Sterilizer – Millipore XX6370000
- One (1) Autoclave NAPCO E Series Model 9000D
- One (1) Blak-Ray Shortwave UV Measuring Meter Model J-2225
- One (1) Refrigerator United USF
- One (1) Incubator VWR Model 5025T
- One (1) Incubator VWR Model 5025B
- One (1) Incubator Fisher Model 146E
- One (1) Incubator Raven Model 120
- One (1) Autoclave Gettinge Model Novus 1
- One (1) Steam Generator Sussman Automatic HP30A
- One (1) Analytical Balance Mettler PL202-S
- One (1) Quebec Darkfield Counter Reichert-Jung Model 3325
- One (1) Emerson Microwave Oven MW8985W
- One (1) Electric Pressure Steam Sterilizer All-American Model 25X-1
- One (1) Frigidare Refrigerator Model FRU17B2JW5
- One (1) VWR Hand Tally 1
- One (1) Olympus Phase Contrast Microscope Model BHB
- One (1) SKC Air Sampler Quicktake 30
- One(1) Beckman pH Meter Model 340
- One (1) Corning Stirrer Hot Plate

Miscellaneous Available Equipment

- One (1) Perkin Elmer Lambda 20 UV/VIS Spectrophotometer
- One (1) Accumet 150 Coulometric KF Titrator
- One (1) VWR Water Bath 1203
- One (1) Ohaus GA110 Analytical Balance
- One (1) VWR 550 T Aquasonic Sonicator
- One (1) Mettler AG204 Analytical Balance
- One (1) Melting Point Apparatus
- One (1) Distek 2100B Dissolution System
- Three (3) Forma Scientific 390 Environmental Chambers
- One (1) International Equipment Model HN Centrifuge
- One (1) Corning Model 350 pH / Ion Analyzer
- One (1) VWR Model V Centrifuge

Appendix B: Instrumentation - *continued*

Laboratory Information Management System (LIMS)

Network Server

- One (1) Domain/DNS Server
- Two (2) Oracle Database/Replicate Servers
- One (1) Backup Domain Server
- One (1) Web Server
- One (1) Backup Organic Data Server
- One (1) Fax Server
- One (1) Web Monitor Server

Network Switch/Hub/Firewall

- One (1) DELL Power Connect 3324
- Four (4) DELL Power Connect 2024
- One (1) CISCO Catalyst 2900 XL
- Two (2) CISCO Fast Hub 400
- One (1) CISCO PIX515E Firewall

Wireless Access Point

- One (1) 802.11B Access Point
- Two (2) 802.11B/G Access Points

Power Backup

- One (1) Smart UPS 3000XL
- One (1) Smart UPS 1400

Operating System

- Windows 95
- Windows 98
- Windows NT
- Windows 2000
- Windows XP

Database

- Oracle
- Microsoft Access

Programming Software

- Visual Basic
- Crystal Report
- Infomaker

Workstation

- Over Sixty (60) PCs with

Laptop

- Over Ten (10) Laptops

Printer

- One (1) HP Color Printer 4500N
- One (1) Primera LX800 Thermal Color Label Printer
- Thirty Two (32) HP Laser Printers
- Five (5) Color DeskJet Printers
- One (1) Dot Matrices Printer
- Two (3) Label Printers

Scanner

- One (1) Color Flatbed Scanner
- Three (3) B&W Sheetfed Scanner
- Five (5) Barcode Scanners

Storage Devices

- Four (4) CD/DVD Storage Units
- Two (2) Backup Tape Drives

Laboratory Software

- Thermo LabSystems Nautilus
- HP Chemstation
- Thermo Elemental Teva
- Perkin Elmer AA WinLab
- Tekmar TOCTalk
- Perkin Elmer Spectrum
- Zellweger Omnion FIA

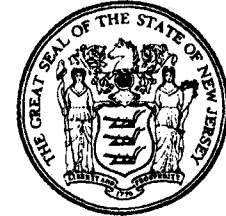
Commercial Software

- Microsoft Office
- Symantec ACT
- Symantec Norton AntiVirus
- Adobe Acrobat



Appendix C: Laboratory Certified Parameter List

State of New Jersey
Department of Environmental Protection



Certifies That
Integrated Analytical Laboratories

Laboratory Certification ID # 14751

is hereby approved as a
Nationally Accredited Environmental Laboratory
to perform the analyses as indicated on the Annual Certified Parameter List
which must accompany this certificate to be valid

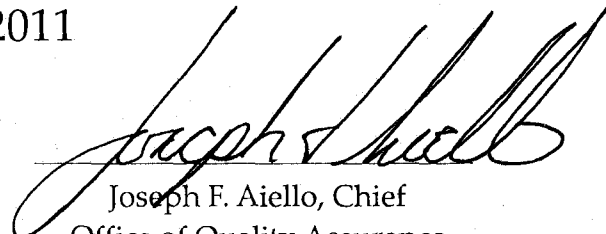
having duly met the requirements of the
Regulations Governing The Certification Of
Laboratories And Environmental Measurements N.J.A.C. 7:18 et. seq.

and
having been found compliant with the standards approved by the
The NELAC Institute

Expiration Date June 30, 2011



NJDEP is a NELAP Recognized Accreditation Body


Joseph F. Aiello, Chief
Office of Quality Assurance

This certificate is to be conspicuously displayed at the laboratory with the annual certified parameter list in a location on the premises visible to the public.
Consumers are urged to verify the laboratory's current accreditation status with the State of NJ, NELAP.

ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009

273 FRANKLIN RD

Randolph Twp, NJ 07869

Category: CAP01 -- Atmos. Inorg. Parameters, Non-Metals

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	CAP01.00003	AE	Ion Chromatography	[EPA CTM027]	Ammonia
Temporary	Yes	NJ	CAP01.00041	AE	Ion Chromatography	[EPA 26] [EPA 26A]	Bromine
Temporary	Yes	NJ	CAP01.00042	AE	Ion Chromatography	[EPA 26] [EPA 26A]	Chlorine
Temporary	Yes	NJ	CAP01.00044	AE	Ion Chromatography	[EPA 26] [EPA 26A]	Hydrogen bromide
Temporary	Yes	NJ	CAP01.00046	AE	Ion Chromatography	[EPA 26] [EPA 26A]	Hydrogen chloride
Temporary	Yes	NJ	CAP01.00048	AE	Ion Chromatography	[EPA 26] [EPA 26A]	Hydrogen fluoride
Applied	No	NJ	CAP01.00068	AE	Thermal Conductivity	[EPA 3C]	Methane
Temporary	Yes	NJ	CAP01.00105	AE	Gravimetric	[EPA 5]	Particulate Matter
Temporary	Yes	NJ	CAP01.00150	AE	Gravimetric	[EPA 202]	Particulate Matter

Category: CAP03 -- Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	CAP03.00184	AE	GC/MS, Canisters	[EPA TO-15]	Acetone
Certified	Yes	NJ	CAP03.00215	AE	GC/MS, Canisters	[EPA TO-15]	Allyl chloride
Certified	Yes	NJ	CAP03.00225	AE	GC/MS, Canisters	[EPA TO-15]	Benzene
Certified	Yes	NJ	CAP03.00230	AE	GC/MS, Canisters	[EPA TO-15]	Benzyl chloride
Certified	Yes	NJ	CAP03.00250	AE	GC/MS, Canisters	[EPA TO-15]	Bromodichloromethane
Certified	Yes	NJ	CAP03.00255	AE	GC/MS, Canisters	[EPA TO-15]	Bromoform
Certified	Yes	NJ	CAP03.00260	AE	GC/MS, Canisters	[EPA TO-15]	Bromomethane
Certified	Yes	NJ	CAP03.00265	AE	GC/MS, Canisters	[EPA TO-15]	Butadiene (1,3-)
Certified	Yes	NJ	CAP03.00270	AE	GC/MS, Canisters	[EPA TO-15]	Carbon disulfide
Certified	Yes	NJ	CAP03.00275	AE	GC/MS, Canisters	[EPA TO-15]	Carbon tetrachloride
Certified	Yes	NJ	CAP03.00300	AE	GC/MS, Canisters	[EPA TO-15]	Chlorobenzene
Certified	Yes	NJ	CAP03.00305	AE	GC/MS, Canisters	[EPA TO-15]	Chloroethane
Certified	Yes	NJ	CAP03.00310	AE	GC/MS, Canisters	[EPA TO-15]	Chloroform
Certified	Yes	NJ	CAP03.00315	AE	GC/MS, Canisters	[EPA TO-15]	Chloromethane
Certified	Yes	NJ	CAP03.00325	AE	GC/MS, Canisters	[EPA TO-15]	Chlorotoluene (2-)
Certified	Yes	NJ	CAP03.00335	AE	GC/MS, Canisters	[EPA TO-15]	Cyclohexane
Certified	Yes	NJ	CAP03.00342	AE	GC/MS, Canisters	[EPA TO-15]	Dibromochloromethane

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: CAP03 – Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	CAP03.00350	AE	GC/MS, Canisters	[EPA TO-15]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NJ	CAP03.00355	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorobenzene (1,2-)
Certified	Yes	NJ	CAP03.00360	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorobenzene (1,3-)
Certified	Yes	NJ	CAP03.00365	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorobenzene (1,4-)
Certified	Yes	NJ	CAP03.00368	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorodifluoromethane
Certified	Yes	NJ	CAP03.00370	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethane (1,1-)
Certified	Yes	NJ	CAP03.00375	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethane (1,2-)
Certified	Yes	NJ	CAP03.00380	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethene (1,1-)
Certified	Yes	NJ	CAP03.00384	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethene (cis-1,2-)
Certified	Yes	NJ	CAP03.00385	AE	GC/MS, Canisters	[EPA TO-15]	Dichloroethene (trans-1,2-)
Certified	Yes	NJ	CAP03.00395	AE	GC/MS, Canisters	[EPA TO-15]	Dichloropropane (1,2-)
Certified	Yes	NJ	CAP03.00400	AE	GC/MS, Canisters	[EPA TO-15]	Dichloropropene (cis-1,3-)
Certified	Yes	NJ	CAP03.00401	AE	GC/MS, Canisters	[EPA TO-15]	Dichloropropene (trans-1,3-)
Certified	Yes	NJ	CAP03.00405	AE	GC/MS, Canisters	[EPA TO-15]	Dichlorotetrafluoroethane (1,2-)
Certified	Yes	NJ	CAP03.00440	AE	GC/MS, Canisters	[EPA TO-15]	Dioxane (1,4-)
Certified	Yes	NJ	CAP03.00451	AE	GC/MS, Canisters	[EPA TO-15]	Ethanol
Applied	No	NJ	CAP03.00452	AE	GC/MS, Canisters	[EPA TO-15]	Ethyl acetate
Certified	Yes	NJ	CAP03.00465	AE	GC/MS, Canisters	[EPA TO-15]	Ethylbenzene
Certified	Yes	NJ	CAP03.00480	AE	GC/MS, Canisters	[EPA TO-15]	Ethyltoluene (4-)
Certified	Yes	NJ	CAP03.00490	AE	GC/MS, Canisters	[EPA TO-15]	Hexachlorobutadiene (1,3-)
Certified	Yes	NJ	CAP03.00500	AE	GC/MS, Canisters	[EPA TO-15]	Heptane (n-)
Certified	Yes	NJ	CAP03.00505	AE	GC/MS, Canisters	[EPA TO-15]	Hexane (n-)
Certified	Yes	NJ	CAP03.00511	AE	GC/MS, Canisters	[EPA TO-15]	Isopropanol
Certified	Yes	NJ	CAP03.00525	AE	GC/MS, Canisters	[EPA TO-15]	Methyl ethyl ketone
Certified	Yes	NJ	CAP03.00535	AE	GC/MS, Canisters	[EPA TO-15]	Methyl isobutyl ketone
Certified	Yes	NJ	CAP03.00545	AE	GC/MS, Canisters	[EPA TO-15]	Methyl methacrylate
Certified	Yes	NJ	CAP03.00550	AE	GC/MS, Canisters	[EPA TO-15]	Methyl tert-butyl ether
Certified	Yes	NJ	CAP03.00555	AE	GC/MS, Canisters	[EPA TO-15]	Methylene chloride (Dichloromethane)
Certified	Yes	NJ	CAP03.00625	AE	GC/MS, Canisters	[EPA TO-15]	Styrene
Certified	Yes	NJ	CAP03.00635	AE	GC/MS, Canisters	[EPA TO-15]	Trichlorobenzene (1,2,4-)
Certified	Yes	NJ	CAP03.00640	AE	GC/MS, Canisters	[EPA TO-15]	Trimethylbenzene (1,3,5-)
Certified	Yes	NJ	CAP03.00645	AE	GC/MS, Canisters	[EPA TO-15]	Trimethylbenzene (1,2,4-)

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: CAP03 -- Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	CAP03.00650	AE	GC/MS, Canisters	[EPA TO-15]	Trimethylpentane (2,2,4-)
Certified	Yes	NJ	CAP03.00652	AE	GC/MS, Canisters	[EPA TO-15]	Tert-butyl alcohol
Certified	Yes	NJ	CAP03.00655	AE	GC/MS, Canisters	[EPA TO-15]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NJ	CAP03.00660	AE	GC/MS, Canisters	[EPA TO-15]	Tetrachloroethene
Certified	Yes	NJ	CAP03.00662	AE	GC/MS, Canisters	[EPA TO-15]	Tetrahydrofuran
Certified	Yes	NJ	CAP03.00665	AE	GC/MS, Canisters	[EPA TO-15]	Toluene
Certified	Yes	NJ	CAP03.00670	AE	GC/MS, Canisters	[EPA TO-15]	Trichloroethane (1,1,1-)
Certified	Yes	NJ	CAP03.00675	AE	GC/MS, Canisters	[EPA TO-15]	Trichloroethane (1,1,2-)
Certified	Yes	NJ	CAP03.00680	AE	GC/MS, Canisters	[EPA TO-15]	Trichloroethene
Certified	Yes	NJ	CAP03.00684	AE	GC/MS, Canisters	[EPA TO-15]	Trichlorofluoromethane
Certified	Yes	NJ	CAP03.00685	AE	GC/MS, Canisters	[EPA TO-15]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NJ	CAP03.00700	AE	GC/MS, Canisters	[EPA TO-15]	Vinyl acetate
Certified	Yes	NJ	CAP03.00705	AE	GC/MS, Canisters	[EPA TO-15]	Vinyl bromide
Certified	Yes	NJ	CAP03.00710	AE	GC/MS, Canisters	[EPA TO-15]	Vinyl chloride
Certified	Yes	NJ	CAP03.00715	AE	GC/MS, Canisters	[EPA TO-15]	Xylene (m-)
Certified	Yes	NJ	CAP03.00720	AE	GC/MS, Canisters	[EPA TO-15]	Xylene (o-)
Certified	Yes	NJ	CAP03.00725	AE	GC/MS, Canisters	[EPA TO-15]	Xylene (p-)
Certified	Yes	NJ	CAP03.00730	AE	GC/MS, Canisters	[EPA TO-15]	Xylenes (total)
Applied	No	NJ	CAP03.03620	AE	GC/ECD, HV PUF	[EPA TO-4A]	Aldrin
Applied	No	NJ	CAP03.03640	AE	GC/ECD, HV PUF	[EPA TO-4A]	Aroclor 1242
Applied	No	NJ	CAP03.03650	AE	GC/ECD, HV PUF	[EPA TO-4A]	Aroclor 1254
Applied	No	NJ	CAP03.03660	AE	GC/ECD, HV PUF	[EPA TO-4A]	Aroclor 1260
Applied	No	NJ	CAP03.03700	AE	GC/ECD, HV PUF	[EPA TO-4A]	Lindane (gamma BHC)
Applied	No	NJ	CAP03.03740	AE	GC/ECD, HV PUF	[EPA TO-4A]	Chlordane
Applied	No	NJ	CAP03.03770	AE	GC/ECD, HV PUF	[EPA TO-4A]	Chlorpyrifos
Applied	No	NJ	CAP03.03800	AE	GC/ECD, HV PUF	[EPA TO-4A]	DDE (4,4'-)
Applied	No	NJ	CAP03.03810	AE	GC/ECD, HV PUF	[EPA TO-4A]	DDT (4,4'-)
Applied	No	NJ	CAP03.03860	AE	GC/ECD, HV PUF	[EPA TO-4A]	Dieldrin
Applied	No	NJ	CAP03.03910	AE	GC/ECD, HV PUF	[EPA TO-4A]	Heptachlor
Applied	No	NJ	CAP03.03920	AE	GC/ECD, HV PUF	[EPA TO-4A]	Heptachlor epoxide
Applied	No	NJ	CAP03.03960	AE	GC/ECD, HV PUF	[EPA TO-4A]	Methoxychlor
Applied	No	NJ	CAP03.05170	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aldrin

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: CAP03 -- Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	CAP03.05190	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1242
Applied	No	NJ	CAP03.05200	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1254
Applied	No	NJ	CAP03.05210	AE	GC/ECD, LV PUF	[EPA TO-10A]	Aroclor 1260
Applied	No	NJ	CAP03.05280	AE	GC/ECD, LV PUF	[EPA TO-10A]	Chlordane
Applied	No	NJ	CAP03.05310	AE	GC/ECD, LV PUF	[EPA TO-10A]	Chlorpyrifos
Applied	No	NJ	CAP03.05350	AE	GC/ECD, LV PUF	[EPA TO-10A]	DDE (4,4'-)
Applied	No	NJ	CAP03.05360	AE	GC/ECD, LV PUF	[EPA TO-10A]	DDT (4,4'-)
Applied	No	NJ	CAP03.05420	AE	GC/ECD, LV PUF	[EPA TO-10A]	Dieldrin
Applied	No	NJ	CAP03.05470	AE	GC/ECD, LV PUF	[EPA TO-10A]	Heptachlor
Applied	No	NJ	CAP03.05480	AE	GC/ECD, LV PUF	[EPA TO-10A]	Heptachlor epoxide
Applied	No	NJ	CAP03.05500	AE	GC/ECD, LV PUF	[EPA TO-10A]	Lindane (gamma BHC)
Applied	No	NJ	CAP03.05530	AE	GC/ECD, LV PUF	[EPA TO-10A]	Methoxychlor
Certified	Yes	NJ	CAP03.05810	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Acetaldehyde
Certified	Yes	NJ	CAP03.05820	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Acetone
Certified	Yes	NJ	CAP03.05830	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Benzaldehyde
Certified	Yes	NJ	CAP03.05850	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Butanal [3-Methyl] [Isovaleraldehyde]
Applied	No	NJ	CAP03.05860	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Butanone (2-)
Certified	Yes	NJ	CAP03.05870	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Butenal (2-) [Crotonaldehyde]
Applied	No	NJ	CAP03.05880	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Butyl aldehyde
Certified	Yes	NJ	CAP03.05890	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Formaldehyde
Certified	Yes	NJ	CAP03.05900	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Hexanal [Hexaldehyde/Caproaldehyde]
Certified	Yes	NJ	CAP03.05910	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Pentanal [Valeraldehyde]
Certified	Yes	NJ	CAP03.05920	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Propionaldehyde
Certified	Yes	NJ	CAP03.05930	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Tolualdehyde (2-)
Certified	Yes	NJ	CAP03.05940	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Tolualdehyde (3-)
Certified	Yes	NJ	CAP03.05950	AE	HPLC/UV, Adsorbant Cartridge	[EPA TO-11A]	Tolualdehyde (4-)
Applied	No	NJ	CAP03.06150	AE	GC/MS	[EPA TO-13A]	Acenaphthene
Applied	No	NJ	CAP03.06160	AE	GC/MS	[EPA TO-13A]	Acenaphthylene
Applied	No	NJ	CAP03.06170	AE	GC/MS	[EPA TO-13A]	Anthracene
Applied	No	NJ	CAP03.06180	AE	GC/MS	[EPA TO-13A]	Benzo(a)anthracene
Applied	No	NJ	CAP03.06190	AE	GC/MS	[EPA TO-13A]	Benzo(a)pyrene
Applied	No	NJ	CAP03.06200	AE	GC/MS	[EPA TO-13A]	Benzo(b)fluoranthene

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New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: CAP03 -- Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	CAP03.06210	AE	GC/MS	[EPA TO-13A]	Benzo(k)fluoranthene
Applied	No	NJ	CAP03.06230	AE	GC/MS	[EPA TO-13A]	Benzo(ghi)perylene
Applied	No	NJ	CAP03.06240	AE	GC/MS	[EPA TO-13A]	Chrysene
Applied	No	NJ	CAP03.06260	AE	GC/MS	[EPA TO-13A]	Dibenzo(a,h)anthracene
Applied	No	NJ	CAP03.06270	AE	GC/MS	[EPA TO-13A]	Fluoranthene
Applied	No	NJ	CAP03.06280	AE	GC/MS	[EPA TO-13A]	Fluorene
Applied	No	NJ	CAP03.06290	AE	GC/MS	[EPA TO-13A]	Indeno(1,2,3-cd)pyrene
Applied	No	NJ	CAP03.06300	AE	GC/MS	[EPA TO-13A]	Naphthalene
Applied	No	NJ	CAP03.06310	AE	GC/MS	[EPA TO-13A]	Perylene
Applied	No	NJ	CAP03.06320	AE	GC/MS	[EPA TO-13A]	Phenanthrene
Applied	No	NJ	CAP03.06330	AE	GC/MS	[EPA TO-13A]	Pyrene
Certified	Yes	NJ	CAP03.06430	AE	GC/MS, Canisters	[EPA TO-14A]	Benzene
Certified	Yes	NJ	CAP03.06440	AE	GC/MS, Canisters	[EPA TO-14A]	Benzyl chloride
Certified	Yes	NJ	CAP03.06443	AE	GC/MS, Canisters	[EPA TO-14A]	Bromodichloromethane
Certified	Yes	NJ	CAP03.06447	AE	GC/MS, Canisters	[EPA TO-14A]	Bromoform
Certified	Yes	NJ	CAP03.06450	AE	GC/MS, Canisters	[EPA TO-14A]	Bromomethane
Certified	Yes	NJ	CAP03.06457	AE	GC/MS, Canisters	[EPA TO-14A]	Carbon disulfide
Certified	Yes	NJ	CAP03.06460	AE	GC/MS, Canisters	[EPA TO-14A]	Carbon tetrachloride
Certified	Yes	NJ	CAP03.06470	AE	GC/MS, Canisters	[EPA TO-14A]	Chlorobenzene
Certified	Yes	NJ	CAP03.06480	AE	GC/MS, Canisters	[EPA TO-14A]	Chloroethane
Certified	Yes	NJ	CAP03.06490	AE	GC/MS, Canisters	[EPA TO-14A]	Chloroform
Certified	Yes	NJ	CAP03.06500	AE	GC/MS, Canisters	[EPA TO-14A]	Chloromethane
Certified	Yes	NJ	CAP03.06503	AE	GC/MS, Canisters	[EPA TO-14A]	Chlorotoluene (2-)
Certified	Yes	NJ	CAP03.06510	AE	GC/MS, Canisters	[EPA TO-14A]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NJ	CAP03.06520	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorobenzene (1,2-)
Certified	Yes	NJ	CAP03.06530	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorobenzene (1,3-)
Certified	Yes	NJ	CAP03.06540	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorobenzene (1,4-)
Certified	Yes	NJ	CAP03.06550	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorodifluoromethane
Certified	Yes	NJ	CAP03.06560	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethane (1,1-)
Certified	Yes	NJ	CAP03.06570	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethane (1,2-)
Certified	Yes	NJ	CAP03.06580	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethene (1,1-)
Certified	Yes	NJ	CAP03.06590	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethene (cis-1,2-)

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National Environmental Laboratory Accreditation Program

ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: CAP03 -- Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	CAP03.06591	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloroethene (trans-1,2-)
Certified	Yes	NJ	CAP03.06595	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorofluoromethane
Certified	Yes	NJ	CAP03.06600	AE	GC/MS, Canisters	[EPA TO-14A]	Methylene chloride (Dichloromethane)
Certified	Yes	NJ	CAP03.06610	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloropropane (1,2-)
Certified	Yes	NJ	CAP03.06620	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloropropene (cis-1,3-)
Certified	Yes	NJ	CAP03.06630	AE	GC/MS, Canisters	[EPA TO-14A]	Dichloropropene (trans-1,3-)
Certified	Yes	NJ	CAP03.06640	AE	GC/MS, Canisters	[EPA TO-14A]	Dichlorotetrafluoroethane (1,2-)
Certified	Yes	NJ	CAP03.06650	AE	GC/MS, Canisters	[EPA TO-14A]	Ethylbenzene
Certified	Yes	NJ	CAP03.06660	AE	GC/MS, Canisters	[EPA TO-14A]	Hexachlorobutadiene (1,3-)
Certified	Yes	NJ	CAP03.06670	AE	GC/MS, Canisters	[EPA TO-14A]	Styrene
Certified	Yes	NJ	CAP03.06674	AE	GC/MS, Canisters	[EPA TO-14A]	Methyl ethyl ketone
Certified	Yes	NJ	CAP03.06676	AE	GC/MS, Canisters	[EPA TO-14A]	Methyl isobutyl ketone
Certified	Yes	NJ	CAP03.06678	AE	GC/MS, Canisters	[EPA TO-14A]	Methyl tert-butyl ether
Certified	Yes	NJ	CAP03.06680	AE	GC/MS, Canisters	[EPA TO-14A]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NJ	CAP03.06690	AE	GC/MS, Canisters	[EPA TO-14A]	Tetrachloroethene
Certified	Yes	NJ	CAP03.06700	AE	GC/MS, Canisters	[EPA TO-14A]	Toluene
Certified	Yes	NJ	CAP03.06710	AE	GC/MS, Canisters	[EPA TO-14A]	Trichlorobenzene (1,2,4-)
Certified	Yes	NJ	CAP03.06720	AE	GC/MS, Canisters	[EPA TO-14A]	Trichloroethane (1,1,1-)
Certified	Yes	NJ	CAP03.06721	AE	GC/MS, Canisters	[EPA TO-14A]	Trichloroethane (1,1,2-)
Certified	Yes	NJ	CAP03.06730	AE	GC/MS, Canisters	[EPA TO-14A]	Trichloroethene
Certified	Yes	NJ	CAP03.06740	AE	GC/MS, Canisters	[EPA TO-14A]	Trichlorofluoromethane
Certified	Yes	NJ	CAP03.06750	AE	GC/MS, Canisters	[EPA TO-14A]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NJ	CAP03.06760	AE	GC/MS, Canisters	[EPA TO-14A]	Trimethylbenzene (1,2,4-)
Certified	Yes	NJ	CAP03.06770	AE	GC/MS, Canisters	[EPA TO-14A]	Trimethylbenzene (1,3,5-)
Certified	Yes	NJ	CAP03.06780	AE	GC/MS, Canisters	[EPA TO-14A]	Vinyl chloride
Certified	Yes	NJ	CAP03.06790	AE	GC/MS, Canisters	[EPA TO-14A]	Xylene (o-)
Certified	Yes	NJ	CAP03.06800	AE	GC/MS, Canisters	[EPA TO-14A]	Xylene (m-)
Certified	Yes	NJ	CAP03.06810	AE	GC/MS, Canisters	[EPA TO-14A]	Xylene (p-)
Certified	Yes	NJ	CAP03.06850	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Acetone
Certified	Yes	NJ	CAP03.06852	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Allyl chloride
Certified	Yes	NJ	CAP03.06854	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Benzene
Certified	Yes	NJ	CAP03.06856	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Bromodichloromethane

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: CAP03 -- Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	CAP03.06858	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Bromoform
Certified	Yes	NJ	CAP03.06860	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Bromomethane
Certified	Yes	NJ	CAP03.06862	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Butadiene (1,3-)
Certified	Yes	NJ	CAP03.06864	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Carbon disulfide
Certified	Yes	NJ	CAP03.06866	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Carbon tetrachloride
Certified	Yes	NJ	CAP03.06868	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chlorobenzene
Certified	Yes	NJ	CAP03.06870	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chloroethane
Certified	Yes	NJ	CAP03.06872	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chloroform
Certified	Yes	NJ	CAP03.06874	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chloromethane
Certified	Yes	NJ	CAP03.06876	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Chlorotoluene (2-)
Certified	Yes	NJ	CAP03.06878	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Cyclohexane
Certified	Yes	NJ	CAP03.06880	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dibromochloromethane
Certified	Yes	NJ	CAP03.06882	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NJ	CAP03.06884	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorobenzene (1,2-)
Certified	Yes	NJ	CAP03.06886	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorobenzene (1,3-)
Certified	Yes	NJ	CAP03.06888	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorobenzene (1,4-)
Certified	Yes	NJ	CAP03.06890	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorodifluoromethane
Certified	Yes	NJ	CAP03.06892	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethane (1,1-)
Certified	Yes	NJ	CAP03.06894	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethane (1,2-)
Certified	Yes	NJ	CAP03.06896	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethene (1,1-)
Certified	Yes	NJ	CAP03.06898	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethene (cis-1,2-)
Certified	Yes	NJ	CAP03.06900	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloroethene (trans-1,2-)
Certified	Yes	NJ	CAP03.06902	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloropropane (1,2-)
Certified	Yes	NJ	CAP03.06904	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloropropene (cis-1,3-)
Certified	Yes	NJ	CAP03.06906	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichloropropene (trans-1,3-)
Certified	Yes	NJ	CAP03.06908	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dichlorotetrafluoroethane (1,2-)
Certified	Yes	NJ	CAP03.06910	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Dioxane (1,4-)
Certified	Yes	NJ	CAP03.06912	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Ethanol
Certified	Yes	NJ	CAP03.06914	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Ethylbenzene
Certified	Yes	NJ	CAP03.06916	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Ethyltoluene (4-)
Certified	Yes	NJ	CAP03.06918	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Heptane (n-)
Certified	Yes	NJ	CAP03.06920	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Hexachlorobutadiene (1,3-)

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: CAP03 – Atmospheric Organic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	CAP03.06922	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Hexane (n-)
Certified	Yes	NJ	CAP03.06924	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Isopropanol
Certified	Yes	NJ	CAP03.06926	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methylene chloride (Dichloromethane)
Certified	Yes	NJ	CAP03.06928	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methyl ethyl ketone
Certified	Yes	NJ	CAP03.06930	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methyl isobutyl ketone
Certified	Yes	NJ	CAP03.06932	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methyl methacrylate
Certified	Yes	NJ	CAP03.06934	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Methyl tert-butyl ether
Certified	Yes	NJ	CAP03.06936	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Styrene
Certified	Yes	NJ	CAP03.06938	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Tert-butyl alcohol
Certified	Yes	NJ	CAP03.06940	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NJ	CAP03.06942	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Tetrachloroethene
Certified	Yes	NJ	CAP03.06944	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Tetrahydrofuran
Certified	Yes	NJ	CAP03.06946	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Toluene
Certified	Yes	NJ	CAP03.06948	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichlorobenzene (1,2,4-)
Certified	Yes	NJ	CAP03.06950	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichloroethane (1,1,1-)
Certified	Yes	NJ	CAP03.06952	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichloroethane (1,1,2-)
Certified	Yes	NJ	CAP03.06954	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichloroethene
Certified	Yes	NJ	CAP03.06956	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichlorofluoromethane
Certified	Yes	NJ	CAP03.06958	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NJ	CAP03.06960	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trimethylbenzene (1,2,4-)
Certified	Yes	NJ	CAP03.06962	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trimethylbenzene (1,3,5-)
Certified	Yes	NJ	CAP03.06964	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Trimethylpentane (2,2,4-)
Certified	Yes	NJ	CAP03.06966	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Vinyl bromide
Certified	Yes	NJ	CAP03.06968	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Vinyl chloride
Certified	Yes	NJ	CAP03.06970	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Xylene (m- + p-)
Certified	Yes	NJ	CAP03.06972	AE	GC/MS, Canisters	[OTHER NJDEP-LLTO-15-3/2009]	Xylene (o-)

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SDW01 -- Microbiological Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SDW01.02000	DW	Membrane Filter (MF) Technique (P-A)	[SM 9222B + 9221E] [SM 9222B + 9221E + MUG]	Total coliform / Fecal coli or E. coli
Certified	Yes	NJ	SDW01.03000	DW	Multiple-Tube Ferm. (MTF) or Single Bottle (P-A)	[SM 9221 B + E] [SM 9221B + E + MUG]	Total coliform / Fecal coli or E. coli
Certified	Yes	NJ	SDW01.05000	DW	ONPG-MUG (Autoanalysis Colilert System) (P-A)	[SM 9223B-]	Total coliform / E. coli
Certified	Yes	NJ	SDW01.05016	DW	Membrane Filter, Enumeration	[SM 9222B/9222G (mEndo/LES-Endo-NA+MUG)]	Total coliform / E. coli
Certified	Yes	NJ	SDW01.14000	DW	Pour Plate	[SM 9215 B]	Heterotrophic bacteria

Category: SDW02 -- Inorganic Parameters Including Na + Ca

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SDW02.01000	DW	Nephelometric	[EPA 180.1]	Turbidity
Certified	Yes	NJ	SDW02.02000	DW	Automated Cadmium Reduction	[SM 4500-NO3 F]	Nitrate
Certified	Yes	NJ	SDW02.06000	DW	Automated Cadmium Reduction	[SM 4500-NO3 F]	Nitrite
Certified	Yes	NJ	SDW02.13000	DW	Manual Potentiometric Ion Select Electrode	[SM 4500-F C]	Fluoride
Certified	Yes	NJ	SDW02.15200	DW	Spectrophotometric, Distill, Semi Automated	[EPA 335.4]	Cyanide
Certified	Yes	NJ	SDW02.18100	DW	Turbidity, Spectrophotometric	[ASTM D516]	Sulfate
Certified	Yes	NJ	SDW02.20000	DW	ICP	[EPA 200.7]	Sodium
Certified	Yes	NJ	SDW02.24000	DW	Gravimetric At 180	[SM 2540 C]	Total dissolved solids (TDS)
Certified	Yes	NJ	SDW02.27000	DW	ICP	[EPA 200.7]	Calcium
Certified	Yes	NJ	SDW02.27300	DW	Hardness By Calculation	[EPA 200.7]	Total hardness
Certified	Yes	NJ	SDW02.28000	DW	Titrimetric Indicator	[SM 2320 B]	Alkalinity
Certified	Yes	NJ	SDW02.30500	DW	Argentometric	[SM 4500-Cl B]	Chloride
Certified	Yes	NJ	SDW02.32000	DW	Platinum-Cobalt	[SM 2120 B]	Color
Certified	Yes	NJ	SDW02.33000	DW	Methylene Blue	[SM 5540 C]	Foaming agents
Certified	Yes	NJ	SDW02.34000	DW	Consistent Series	[SM 2150 B]	Odor
Certified	Yes	NJ	SDW02.35000	DW	Conductance	[SM 2510 B]	Conductivity
Applied	No	NJ	SDW02.36400	DW	ICP	[EPA 200.7]	Silica

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National Environmental Laboratory Accreditation Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SDW03 -- Analyze-Immediately Inorganic Parameter

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SDW03.00002	DW	All Categories Sample Handling Procedures	[OTHER NJAC 7:18-6 & 9]	PWTA Sampling Parameters
Certified	Yes	NJ	SDW03.03000	DW	DPD, Colorimetric	[SM 4500-Cl G]	Chlorine - residual
Certified	Yes	NJ	SDW03.08000	DW	Electrometric	[EPA 150.1]	pH
Certified	Yes	NJ	SDW03.09000	DW	Thermometric	[SM 2550 B]	Temperature

Category: SDW04 -- Inorganic Parameters, Metals

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SDW04.03100	DW	ICP/MS	[EPA 200.8]	Aluminum
Certified	Yes	NJ	SDW04.07000	DW	ICP/MS	[EPA 200.8]	Antimony
Certified	Yes	NJ	SDW04.12000	DW	ICP/MS	[EPA 200.8]	Arsenic
Certified	Yes	NJ	SDW04.17000	DW	ICP/MS	[EPA 200.8]	Barium
Certified	Yes	NJ	SDW04.21000	DW	ICP/MS	[EPA 200.8]	Beryllium
Certified	Yes	NJ	SDW04.25000	DW	ICP/MS	[EPA 200.8]	Cadmium
Certified	Yes	NJ	SDW04.29000	DW	ICP/MS	[EPA 200.8]	Chromium
Certified	Yes	NJ	SDW04.34000	DW	ICP/MS	[EPA 200.8]	Copper
Certified	Yes	NJ	SDW04.37000	DW	ICP	[EPA 200.7]	Iron
Certified	Yes	NJ	SDW04.40000	DW	ICP/MS	[EPA 200.8]	Lead
Certified	Yes	NJ	SDW04.41100	DW	ICP	[EPA 200.7]	Magnesium
Certified	Yes	NJ	SDW04.45000	DW	ICP/MS	[EPA 200.8]	Manganese
Certified	Yes	NJ	SDW04.46000	DW	Manual Cold Vapor	[EPA 245.1]	Mercury
Certified	Yes	NJ	SDW04.48000	DW	ICP/MS	[EPA 200.8]	Mercury
Certified	Yes	NJ	SDW04.53000	DW	ICP/MS	[EPA 200.8]	Nickel
Certified	Yes	NJ	SDW04.57000	DW	ICP/MS	[EPA 200.8]	Selenium
Certified	Yes	NJ	SDW04.63000	DW	ICP/MS	[EPA 200.8]	Silver
Certified	Yes	NJ	SDW04.65000	DW	ICP/MS	[EPA 200.8]	Thallium
Certified	Yes	NJ	SDW04.68000	DW	ICP/MS	[EPA 200.8]	Zinc

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273 FRANKLIN RD

Randolph Twp, NJ 07869

Category: SDW05 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SDW05.12010	DW	Solvent Extract, GC	[EPA 504.1]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NJ	SDW05.12020	DW	Solvent Extract, GC	[EPA 504.1]	Dibromo-3-chloropropane (1,2-)
Certified	Yes	NJ	SDW05.12030	DW	Solvent Extract, GC	[EPA 504.1]	Trichloropropane (1,2,3-)

Category: SDW06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SDW06.01010	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Bromoform
Certified	Yes	NJ	SDW06.01020	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chloroform
Certified	Yes	NJ	SDW06.01030	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dibromochloromethane
Certified	Yes	NJ	SDW06.01040	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Bromodichloromethane
Certified	Yes	NJ	SDW06.02010	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Benzene
Certified	Yes	NJ	SDW06.02020	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Carbon tetrachloride
Certified	Yes	NJ	SDW06.02030	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chlorobenzene
Certified	Yes	NJ	SDW06.02040	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichlorobenzene (1,2-)
Certified	Yes	NJ	SDW06.02050	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichlorobenzene (1,3-)
Certified	Yes	NJ	SDW06.02060	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichlorobenzene (1,4-)
Certified	Yes	NJ	SDW06.02070	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloroethane (1,1-)
Certified	Yes	NJ	SDW06.02080	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloroethane (1,2-)
Certified	Yes	NJ	SDW06.02090	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloroethene (cis-1,2-)
Certified	Yes	NJ	SDW06.02100	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloroethene (trans-1,2-)
Certified	Yes	NJ	SDW06.02110	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Methylene chloride (Dichloromethane)
Certified	Yes	NJ	SDW06.02120	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloropropane (1,2-)
Certified	Yes	NJ	SDW06.02130	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Ethylbenzene
Certified	Yes	NJ	SDW06.02140	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Methyl tert-butyl ether
Certified	Yes	NJ	SDW06.02150	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Naphthalene
Certified	Yes	NJ	SDW06.02160	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Styrene
Certified	Yes	NJ	SDW06.02170	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NJ	SDW06.02180	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Tetrachloroethene
Certified	Yes	NJ	SDW06.02190	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichloroethane (1,1,1-)

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SDW06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SDW06.02200	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichloroethene
Certified	Yes	NJ	SDW06.02210	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Toluene
Certified	Yes	NJ	SDW06.02220	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichlorobenzene (1,2,4-)
Certified	Yes	NJ	SDW06.02230	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloroethene (1,1-)
Certified	Yes	NJ	SDW06.02240	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichloroethane (1,1,2-)
Certified	Yes	NJ	SDW06.02250	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Vinyl chloride
Certified	Yes	NJ	SDW06.02260	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Xylenes (total)
Certified	Yes	NJ	SDW06.03010	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Bromobenzene
Certified	Yes	NJ	SDW06.03020	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Bromochloromethane
Certified	Yes	NJ	SDW06.03030	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Bromomethane
Certified	Yes	NJ	SDW06.03040	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Butyl benzene (n-)
Certified	Yes	NJ	SDW06.03050	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Sec-butylbenzene
Certified	Yes	NJ	SDW06.03060	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Tert-butylbenzene
Certified	Yes	NJ	SDW06.03070	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chloroethane
Certified	Yes	NJ	SDW06.03080	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chloromethane
Certified	Yes	NJ	SDW06.03090	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chlorotoluene (2-)
Certified	Yes	NJ	SDW06.03100	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chlorotoluene (4-)
Certified	Yes	NJ	SDW06.03110	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dibromo-3-chloropropane (1,2-)
Certified	Yes	NJ	SDW06.03120	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NJ	SDW06.03130	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dibromomethane
Certified	Yes	NJ	SDW06.03140	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichlorodifluoromethane
Certified	Yes	NJ	SDW06.03150	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloropropane (1,3-)
Certified	Yes	NJ	SDW06.03160	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloropropane (2,2-)
Certified	Yes	NJ	SDW06.03170	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloropropene (1,1-)
Certified	Yes	NJ	SDW06.03180	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloropropene (cis-1,3-)
Certified	Yes	NJ	SDW06.03190	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloropropene (trans-1,3-)
Certified	Yes	NJ	SDW06.03200	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Hexachlorobutadiene (1,3-)
Certified	Yes	NJ	SDW06.03210	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Isopropylbenzene
Certified	Yes	NJ	SDW06.03220	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Isopropyltoluene (4-)
Certified	Yes	NJ	SDW06.03230	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Propylbenzene (n-)
Certified	Yes	NJ	SDW06.03240	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Tetrachloroethane (1,1,1,2-)
Certified	Yes	NJ	SDW06.03250	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichlorobenzene (1,2,3-)

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ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SDW06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SDW06.03251	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichlorobenzene (1,3,5-)
Certified	Yes	NJ	SDW06.03260	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichlorofluoromethane
Certified	Yes	NJ	SDW06.03270	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trichloropropane (1,2,3-)
Certified	Yes	NJ	SDW06.03280	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trimethylbenzene (1,2,4-)
Certified	Yes	NJ	SDW06.03300	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Trimethylbenzene (1,3,5-)
Certified	Yes	NJ	SDW06.03310	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Nitrobenzene
Certified	Yes	NJ	SDW06.03410	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Acetone
Certified	Yes	NJ	SDW06.03420	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Acrylonitrile
Certified	Yes	NJ	SDW06.03430	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Allyl chloride
Certified	Yes	NJ	SDW06.03440	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Butanone (2-)
Certified	Yes	NJ	SDW06.03450	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Carbon disulfide
Certified	Yes	NJ	SDW06.03460	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chloroacetonitrile
Certified	Yes	NJ	SDW06.03470	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Chlorobutane (1-)
Certified	Yes	NJ	SDW06.03480	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloro-2-butene (trans-1,4-)
Certified	Yes	NJ	SDW06.03490	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Dichloropropanone (1,1-)
Certified	Yes	NJ	SDW06.03500	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Diethyl ether (Ethyl ether)
Certified	Yes	NJ	SDW06.03510	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Ethyl methacrylate
Applied	No	NJ	SDW06.03515	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Hexane (n-)
Certified	Yes	NJ	SDW06.03520	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Hexachloroethane
Certified	Yes	NJ	SDW06.03530	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Hexanone (2-)
Certified	Yes	NJ	SDW06.03540	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Methacrylonitrile
Certified	Yes	NJ	SDW06.03550	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Methyl acrylate
Certified	Yes	NJ	SDW06.03560	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Methyl iodide
Certified	Yes	NJ	SDW06.03570	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Methyl methacrylate
Certified	Yes	NJ	SDW06.03580	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Pentanone (4-methyl-2-)
Certified	Yes	NJ	SDW06.03590	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Nitropropane (2-)
Certified	Yes	NJ	SDW06.03600	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Pentachloroethane
Certified	Yes	NJ	SDW06.03610	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Propionitrile
Certified	Yes	NJ	SDW06.03615	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Tert-butyl alcohol
Certified	Yes	NJ	SDW06.03620	DW	GC/MS, P & T or Direct Injection, Capillary	[EPA 524.2]	Tetrahydrofuran

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273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SHW03 -- Analyze-Immediately Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW03.02000	NPW	Thermometric	[SM 2550 B]	Temperature

Category: SHW04 -- Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW04.01000	NPW	Acid Digestion/Surface and Groundwater, ICP, FLAA	[SW-846 3005A]	Metals, Total Rec and Dissolved
Certified	Yes	NJ	SHW04.01500	NPW	Acid Digestion/Aqueous Samples, ICP, FLAA	[SW-846 3010A]	Metals, Total
Certified	Yes	NJ	SHW04.33000	NPW	AA, Manual Cold Vapor	[SW-846 7470A]	Mercury - liquid waste

Category: SHW05 -- Organic Parameters, Prep. / Screening

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW05.01000	NPW	Separatory Funnel Extraction	[SW-846 3510C]	Semivolatile organics
Certified	Yes	NJ	SHW05.02000	NPW	Continuous Liquid-Liquid Extraction	[SW-846 3520C]	Semivolatile organics
Certified	Yes	NJ	SHW05.07000	NPW	Purge & Trap Aqueous	[SW-846 5030B]	Volatile organics

Category: SHW06 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW06.23105	NPW	GC, Headspace, FID	[OTHER J. Chrom. Sci. RSK-175]	Ethene
Certified	Yes	NJ	SHW06.23110	NPW	GC, Headspace, FID	[OTHER J. Chrom. Sci. RSK-175]	Methane
Certified	Yes	NJ	SHW06.23115	NPW	GC, Headspace, FID	[OTHER J. Chrom. Sci. RSK-175]	Propane

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273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW07.07584	NPW	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(a)anthracene
Certified	Yes	NJ	SHW07.07586	NPW	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(a)pyrene
Certified	Yes	NJ	SHW07.07588	NPW	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(b)fluoranthene
Certified	Yes	NJ	SHW07.07590	NPW	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(k)fluoranthene
Certified	Yes	NJ	SHW07.07594	NPW	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dibenzo(a,h)anthracene
Certified	Yes	NJ	SHW07.07596	NPW	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C]	Hexachlorobenzene
Certified	Yes	NJ	SHW07.07598	NPW	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C]	Indeno(1,2,3-cd)pyrene
Certified	Yes	NJ	SHW07.07616	NPW	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C]	Pentachlorophenol

Category: SHW09 -- Miscellaneous Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW09.06000	NPW	Combustion, Titration	[SW-846 9020B]	Total organic halides (TOX)
Applied	No	NJ	SHW09.17000	NPW	Wheatstone Bridge	[SW-846 9050A]	Specific conductance
Certified	Yes	NJ	SHW09.22000	NPW	Colorimetric, Auto, 4AAP Distillation	[SW-846 9066]	Phenols

Category: WPP01 -- Microbiological Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP01.01000	NPW	MPN, Dilution	[SM 9221 C & E]	Fecal coliform
Certified	Yes	NJ	WPP01.02000	NPW	Membrane Filter (MF), Single Step	[SM 9222 D]	Fecal coliform
Certified	Yes	NJ	WPP01.03000	NPW	MPN, Dilution	[SM 9221 B]	Total coliform
Certified	Yes	NJ	WPP01.04000	NPW	MF Single Step or Two Step	[SM 9222 B]	Total coliform
Certified	Yes	NJ	WPP01.05000	NPW	MPN, Dilution	[SM 9230 B]	Fecal streptococci
Certified	Yes	NJ	WPP01.09020	NPW	Multiple Tube/Mutiple Well - Enterolert	[ASTM D6503]	Enterococci
Certified	Yes	NJ	WPP01.10000	NPW	Pour Plate	[SM 9215 B]	Heterotrophic plate count
Applied	No	NJ	WPP01.10100	NPW	Spread Plate	[SM 9215 C]	Heterotrophic plate count
Certified	Yes	NJ	WPP01.11000	NPW	MPN, Dilution	[SM 9213 F]	Pseudomonas aeruginosa
Certified	Yes	NJ	WPP01.16000	NPW	Membrane Filter (mTEC)	[EPA 1103.1]	E. coli (ambient water only)

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New Jersey Department of Environmental Protection

National Environmental Laboratory Accreditation Program

ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: WPP01 -- Microbiological Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	WPP01.16120	NPW	MPN/Multiple Tube/Multiple Well	[OTHER Colilert]	Escherichia coli (E coli)

Category: WPP02 -- Inorg. Parameters, Nutrients and Demands

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP02.01000	NPW	Electrometric or Phenolphthalein	[SM 2310 B(4A)]	Acidity as CaCO ₃
Certified	Yes	NJ	WPP02.01500	NPW	Electrometric or Color Titration	[SM 2320 B]	Alkalinity as CaCO ₃
Certified	Yes	NJ	WPP02.04000	NPW	Automated Phenate	[SM 4500-NH ₃ B+G (19/20th ed.)]	Ammonia
Certified	Yes	NJ	WPP02.05000	NPW	Dissolved Oxygen Depletion	[SM 5210 B]	Biochemical oxygen demand
Certified	Yes	NJ	WPP02.06000	NPW	ICP	[EPA 200.7]	Boron
Certified	Yes	NJ	WPP02.07000	NPW	Titrimetric	[USGS 1-1125-85]	Bromide
Certified	Yes	NJ	WPP02.08000	NPW	Digestion, ICP	[EPA 200.7]	Calcium
Certified	Yes	NJ	WPP02.08050	NPW	ICP/MS	[EPA 200.8]	Calcium
Certified	Yes	NJ	WPP02.09500	NPW	Dissolved Oxygen Depletion, Nitrification Inhibition	[SM 5210 B]	Carbonaceous BOD (CBOD)
Certified	Yes	NJ	WPP02.10500	NPW	Spectrophotometric Manual/Auto	[OTHER Hach 8000]	Chemical oxygen demand
Certified	Yes	NJ	WPP02.12500	NPW	Colorimetric, Automated (Ferricyanide)	[SM 4500-Cl E]	Chloride
Applied	No	NJ	WPP02.12850	NPW	Spectrophotometric	[SM 10200H 1 + 2]	Chlorophyll
Certified	Yes	NJ	WPP02.13500	NPW	Colorimetric (Platinum-Cobalt)	[SM 2120 B]	Color
Certified	Yes	NJ	WPP02.15500	NPW	Distillation, Spectrophotometric (Auto)	[EPA 335.4]	Cyanide
Certified	Yes	NJ	WPP02.16000	NPW	Manual Distillation, Titrimetric/Spectro	[SM 4500-CN C,G]	Cyanide - amenable to Cl ₂
Certified	Yes	NJ	WPP02.16500	NPW	Distillation + Electrode, Manual	[SM 4500-F B, C]	Fluoride
Certified	Yes	NJ	WPP02.19000	NPW	Titrimetric, EDTA	[SM 2340 B or C]	Hardness - total as CaCO ₃
Certified	Yes	NJ	WPP02.20100	NPW	Ca + Mg Carbonates, ICP	[EPA 200.7]	Hardness - total as CaCO ₃
Certified	Yes	NJ	WPP02.22500	NPW	Digestion, Distillation, Semiautomated Digester	[EPA 351.2]	Kjeldahl nitrogen - total
Certified	Yes	NJ	WPP02.24000	NPW	Digestion, ICP	[EPA 200.7]	Magnesium
Certified	Yes	NJ	WPP02.24050	NPW	ICP/MS	[EPA 200.8]	Magnesium
Certified	Yes	NJ	WPP02.27000	NPW	Cadmium Reduction, Automated	[SM 4500-NO ₃ F]	Nitrate - nitrite
Certified	Yes	NJ	WPP02.28500	NPW	Spectrophotometric, Auto Diazotization	[USGS 1-4540-85]	Nitrite
Certified	Yes	NJ	WPP02.29100	NPW	Gravimetric, Hexane Extractable Material-LL	[EPA 1664A]	Oil & grease - hem-LL
Certified	Yes	NJ	WPP02.29200	NPW	Gravimetric, Silica Gel Treated-Hem	[EPA 1664A]	Oil & grease - sgt-non polar

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273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: WPP02 -- Inorg. Parameters, Nutrients and Demands

Status	Eligible to Report	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
	NJ Data						
Certified	Yes	NJ	WPP02.30000	NPW	Combustion or Oxidation	[SM 5310 B, C or D]	Total organic carbon (TOC)
Certified	Yes	NJ	WPP02.30500	NPW	Total Kjeldahl-N Minus Ammonia-N	[SM 4500-NH3 B, C, D, E, F, G, H]	Organic nitrogen
Certified	Yes	NJ	WPP02.31500	NPW	Ascorbic Acid, Manual Single Reagent	[SM 4500-P, E]	Orthophosphate
Certified	Yes	NJ	WPP02.33000	NPW	Manual Distillation, Colorimetric Auto	[EPA 420.1 + .4]	Phenols
Certified	Yes	NJ	WPP02.34000	NPW	Persulfate Digestion + Manual	[SM 4500-P B5 + E]	Phosphorus (total)
Certified	Yes	NJ	WPP02.36500	NPW	Digestion, ICP	[EPA 200.7]	Potassium
Certified	Yes	NJ	WPP02.36550	NPW	ICP/MS	[EPA 200.8]	Potassium
Certified	Yes	NJ	WPP02.38000	NPW	Gravimetric, 103-105 Degrees C	[SM 2540 B]	Residue - total
Certified	Yes	NJ	WPP02.38500	NPW	Gravimetric, 180 Degrees C	[SM 2540 C]	Residue - filterable (TDS)
Certified	Yes	NJ	WPP02.39000	NPW	Gravimetric, 103-105 Degrees C, Post Washing	[SM 2540 D]	Residue - nonfilterable (TSS)
Certified	Yes	NJ	WPP02.39500	NPW	Volumetric (Imhoff Cone) or Gravimetric	[SM 2540 F]	Residue - settleable
Certified	Yes	NJ	WPP02.40000	NPW	Gravimetric, 550 Degrees C	[EPA 160.4]	Residue - volatile
Certified	Yes	NJ	WPP02.40100	NPW	Gravimetric, 500 Degrees C	[SM 2540 G]	Total, fixed, and volatile solids (SQAR)
Certified	Yes	NJ	WPP02.42500	NPW	0.45u Filtration + ICP	[EPA 200.7]	Silica - dissolved
Certified	Yes	NJ	WPP02.44000	NPW	Digestion, ICP	[EPA 200.7]	Sodium
Certified	Yes	NJ	WPP02.44050	NPW	ICP/MS	[EPA 200.8]	Sodium
Certified	Yes	NJ	WPP02.45500	NPW	Wheatstone Bridge	[EPA 120.1] [SM 2510 B]	Specific conductance
Certified	Yes	NJ	WPP02.46500	NPW	Turbidimetric	[ASTM D516]	Sulfate
Certified	Yes	NJ	WPP02.47500	NPW	Titrimetric, Iodine	[SM 4500-S F (19/20th ed)]	Sulfides
Certified	Yes	NJ	WPP02.48500	NPW	Colorimetric (Methylene Blue)	[SM 5540 C]	Surfactants
Certified	Yes	NJ	WPP02.50000	NPW	Nephelometric	[EPA 180.1] [SM 2130 B]	Turbidity

Category: WPP03 -- Analyze-Immediately Inorganic Parameters

Status	Eligible to Report	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
	NJ Data						
Certified	Yes	NJ	WPP03.05000	NPW	Spectrophotometric, DPD	[SM 4500-Cl G]	Chlorine
Certified	Yes	NJ	WPP03.07000	NPW	Winkler, Azide Modification	[SM 4500-O C]	Oxygen (dissolved)
Certified	Yes	NJ	WPP03.08000	NPW	Electrode	[SM 4500-O G]	Oxygen (dissolved)
Certified	Yes	NJ	WPP03.09000	NPW	Electrometric	[SM 4500-H B]	pH
Applied	No	NJ	WPP03.12000	NPW	Titrimetric, Iodine-Iodate	[SM 4500-SO3 B]	Sulfite - SO3

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273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: WPP03 -- Analyze-Immediately Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP03.14000	NPW	Thermometric	[SM 2550 B]	Temperature

Category: WPP04 -- Inorganic Parameters, Metals

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP04.02100	NPW	ICP/MS	[EPA 200.8]	Aluminum
Certified	Yes	NJ	WPP04.04600	NPW	ICP/MS	[EPA 200.8]	Antimony
Certified	Yes	NJ	WPP04.05700	NPW	ICP/MS	[EPA 200.8]	Arsenic
Certified	Yes	NJ	WPP04.08200	NPW	ICP/MS	[EPA 200.8]	Barium
Certified	Yes	NJ	WPP04.11100	NPW	ICP/MS	[EPA 200.8]	Beryllium
Certified	Yes	NJ	WPP04.13600	NPW	ICP/MS	[EPA 200.8]	Cadmium
Certified	Yes	NJ	WPP04.15000	NPW	0.45u Filter, Colorimetric DPC	[SM 3500-Cr B (20th ed)]	Chromium (VI)
Certified	Yes	NJ	WPP04.18100	NPW	ICP/MS	[EPA 200.8]	Chromium
Certified	Yes	NJ	WPP04.19600	NPW	ICP/MS	[EPA 200.8]	Cobalt
Certified	Yes	NJ	WPP04.21600	NPW	ICP/MS	[EPA 200.8]	Copper
Certified	Yes	NJ	WPP04.26500	NPW	Digestion, ICP	[EPA 200.7]	Iron
Certified	Yes	NJ	WPP04.26550	NPW	ICP/MS	[EPA 200.8]	Iron
Applied	No	NJ	WPP04.27001	NPW	Digestion, Colorimetric (Phenanthroline)	[SM 3500-Fe D (18/19th ed)]	Iron, Ferrous
Certified	Yes	NJ	WPP04.28100	NPW	ICP/MS	[EPA 200.8]	Lead
Certified	Yes	NJ	WPP04.31100	NPW	ICP/MS	[EPA 200.8]	Manganese
Certified	Yes	NJ	WPP04.33000	NPW	Manual Cold Vapor	[EPA 245.1]	Mercury
Applied	No	NJ	WPP04.33550	NPW	Digestion, ICP/MS (Incinerator)	[EPA 200.8]	Mercury
Certified	Yes	NJ	WPP04.35200	NPW	ICP/MS	[EPA 200.8]	Molybdenum
Certified	Yes	NJ	WPP04.37600	NPW	ICP/MS	[EPA 200.8]	Nickel
Certified	Yes	NJ	WPP04.45600	NPW	ICP/MS	[EPA 200.8]	Selenium
Certified	Yes	NJ	WPP04.48200	NPW	ICP/MS	[EPA 200.8]	Silver
Certified	Yes	NJ	WPP04.50100	NPW	ICP/MS	[EPA 200.8]	Thallium
Certified	Yes	NJ	WPP04.51100	NPW	Digestion, ICP	[EPA 200.7]	Tin
Certified	Yes	NJ	WPP04.51200	NPW	ICP/MS	[EPA 200.8]	Tin
Certified	Yes	NJ	WPP04.52070	NPW	ICP/MS	[EPA 200.8]	Titanium

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Category: WPP04 -- Inorganic Parameters, Metals

Status	Eligible to Report	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
	NJ Data						
Certified	Yes	NJ	WPP04.54100	NPW	ICP/MS	[EPA 200.8]	Vanadium
Certified	Yes	NJ	WPP04.56600	NPW	ICP/MS	[EPA 200.8]	Zinc

Category: WPP05 -- Organic Parameters, Chromatography

Status	Eligible to Report	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
	NJ Data						
Certified	Yes	NJ	WPP05.09010	NPW	Extract/GC (ECD)	[EPA 608]	Aldrin
Certified	Yes	NJ	WPP05.09020	NPW	Extract/GC (ECD)	[EPA 608]	Alpha BHC
Certified	Yes	NJ	WPP05.09030	NPW	Extract/GC (ECD)	[EPA 608]	Beta BHC
Certified	Yes	NJ	WPP05.09040	NPW	Extract/GC (ECD)	[EPA 608]	Delta BHC
Certified	Yes	NJ	WPP05.09050	NPW	Extract/GC (ECD)	[EPA 608]	Lindane (gamma BHC)
Certified	Yes	NJ	WPP05.09060	NPW	Extract/GC (ECD)	[EPA 608]	Chlordane
Certified	Yes	NJ	WPP05.09062	NPW	Extract/GC (ECD)	[EPA 608]	Chlordane (alpha)
Certified	Yes	NJ	WPP05.09063	NPW	Extract/GC (ECD)	[EPA 608]	Chlordane (gamma)
Certified	Yes	NJ	WPP05.09070	NPW	Extract/GC (ECD)	[EPA 608]	DDD (4,4'-)
Certified	Yes	NJ	WPP05.09080	NPW	Extract/GC (ECD)	[EPA 608]	DDE (4,4'-)
Certified	Yes	NJ	WPP05.09090	NPW	Extract/GC (ECD)	[EPA 608]	DDT (4,4'-)
Certified	Yes	NJ	WPP05.09100	NPW	Extract/GC (ECD)	[EPA 608]	Dieldrin
Certified	Yes	NJ	WPP05.09110	NPW	Extract/GC (ECD)	[EPA 608]	Endosulfan I
Certified	Yes	NJ	WPP05.09120	NPW	Extract/GC (ECD)	[EPA 608]	Endosulfan II
Certified	Yes	NJ	WPP05.09130	NPW	Extract/GC (ECD)	[EPA 608]	Endosulfan sulfate
Certified	Yes	NJ	WPP05.09140	NPW	Extract/GC (ECD)	[EPA 608]	Endrin
Certified	Yes	NJ	WPP05.09150	NPW	Extract/GC (ECD)	[EPA 608]	Endrin aldehyde
Certified	Yes	NJ	WPP05.09160	NPW	Extract/GC (ECD)	[EPA 608]	Endrin ketone
Certified	Yes	NJ	WPP05.09170	NPW	Extract/GC (ECD)	[EPA 608]	Heptachlor
Certified	Yes	NJ	WPP05.09180	NPW	Extract/GC (ECD)	[EPA 608]	Heptachlor epoxide
Certified	Yes	NJ	WPP05.09190	NPW	Extract/GC (ECD)	[EPA 608]	Methoxychlor
Certified	Yes	NJ	WPP05.09200	NPW	Extract/GC (ECD)	[EPA 608]	Toxaphene
Certified	Yes	NJ	WPP05.11010	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1016
Certified	Yes	NJ	WPP05.11020	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1221

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 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: WPP05 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP05.11030	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1232
Certified	Yes	NJ	WPP05.11040	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1242
Certified	Yes	NJ	WPP05.11050	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1248
Certified	Yes	NJ	WPP05.11060	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1254
Certified	Yes	NJ	WPP05.11070	NPW	Extract/GC (ECD)	[EPA 608]	PCB 1260

Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP06.02001	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Amyl acetate (n-)
Certified	Yes	NJ	WPP06.02002	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Amyl alcohol (n-)
Certified	Yes	NJ	WPP06.02003	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Acetone
Certified	Yes	NJ	WPP06.02007	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Acrolein
Certified	Yes	NJ	WPP06.02009	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Acrylonitrile
Certified	Yes	NJ	WPP06.02010	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Benzene
Certified	Yes	NJ	WPP06.02015	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Bromobenzene
Certified	Yes	NJ	WPP06.02017	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Bromochloromethane
Certified	Yes	NJ	WPP06.02020	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Bromodichloromethane
Certified	Yes	NJ	WPP06.02030	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Bromoform
Certified	Yes	NJ	WPP06.02040	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Bromomethane
Certified	Yes	NJ	WPP06.02041	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Butanone (2-)
Certified	Yes	NJ	WPP06.02042	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Butyl acetate (n-)
Certified	Yes	NJ	WPP06.02044	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Butyl benzene (n-)
Certified	Yes	NJ	WPP06.02045	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Carbon disulfide
Certified	Yes	NJ	WPP06.02050	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Carbon tetrachloride
Certified	Yes	NJ	WPP06.02060	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chlorobenzene
Certified	Yes	NJ	WPP06.02070	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chloroethane
Certified	Yes	NJ	WPP06.02080	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chloroethyl vinyl ether (2-)
Certified	Yes	NJ	WPP06.02090	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chloroform
Certified	Yes	NJ	WPP06.02100	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chloromethane

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 273 FRANKLIN RD
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Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP06.02103	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chlorotoluene (2-)
Certified	Yes	NJ	WPP06.02105	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Chlorotoluene (4-)
Certified	Yes	NJ	WPP06.02107	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dibromo-3-chloropropane (1,2-)
Certified	Yes	NJ	WPP06.02110	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dibromochloromethane
Certified	Yes	NJ	WPP06.02115	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NJ	WPP06.02116	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dibromomethane
Certified	Yes	NJ	WPP06.02120	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichlorobenzene (1,2-)
Certified	Yes	NJ	WPP06.02130	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichlorobenzene (1,3-)
Certified	Yes	NJ	WPP06.02140	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichlorobenzene (1,4-)
Certified	Yes	NJ	WPP06.02145	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichlorodifluoromethane
Certified	Yes	NJ	WPP06.02150	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethane (1,1-)
Certified	Yes	NJ	WPP06.02160	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethane (1,2-)
Certified	Yes	NJ	WPP06.02170	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethene (1,1-)
Certified	Yes	NJ	WPP06.02175	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethene (cis-1,2-)
Certified	Yes	NJ	WPP06.02180	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloroethene (trans-1,2-)
Certified	Yes	NJ	WPP06.02190	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropane (1,2-)
Certified	Yes	NJ	WPP06.02192	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropane (1,3-)
Certified	Yes	NJ	WPP06.02194	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropane (2,2-)
Certified	Yes	NJ	WPP06.02195	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropene (1,1-)
Certified	Yes	NJ	WPP06.02200	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropene (cis-1,3-)
Certified	Yes	NJ	WPP06.02210	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dichloropropene (trans-1,3-)
Certified	Yes	NJ	WPP06.02212	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Ethyl acetate
Certified	Yes	NJ	WPP06.02220	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Ethylbenzene
Certified	Yes	NJ	WPP06.02222	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Heptane (n-)
Certified	Yes	NJ	WPP06.02223	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Hexane (n-)
Certified	Yes	NJ	WPP06.02224	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Isobutyraldehyde
Certified	Yes	NJ	WPP06.02225	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Isopropanol
Certified	Yes	NJ	WPP06.02226	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Isopropyl acetate
Certified	Yes	NJ	WPP06.02227	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Isopropyl ether
Certified	Yes	NJ	WPP06.02230	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Methylene chloride (Dichloromethane)
Certified	Yes	NJ	WPP06.02231	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Methyl formate
Certified	Yes	NJ	WPP06.02232	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Methyl tert-butyl ether

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ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP06.02233	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Methyl isobutyl ketone
Certified	Yes	NJ	WPP06.02234	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Tert-butyl alcohol
Certified	Yes	NJ	WPP06.02235	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Tetrahydrofuran
Certified	Yes	NJ	WPP06.02238	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Styrene
Certified	Yes	NJ	WPP06.02240	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NJ	WPP06.02245	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Tetrachloroethane (1,1,1,2-)
Certified	Yes	NJ	WPP06.02250	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Tetrachloroethene
Certified	Yes	NJ	WPP06.02260	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Toluene
Certified	Yes	NJ	WPP06.02270	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichloroethane (1,1,1-)
Certified	Yes	NJ	WPP06.02280	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichloroethane (1,1,2-)
Certified	Yes	NJ	WPP06.02290	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichloroethene
Certified	Yes	NJ	WPP06.02300	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichlorofluoromethane
Certified	Yes	NJ	WPP06.02305	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NJ	WPP06.02307	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Vinyl acetate
Certified	Yes	NJ	WPP06.02310	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Vinyl chloride
Certified	Yes	NJ	WPP06.02312	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Xylenes (total)
Certified	Yes	NJ	WPP06.02314	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Xylene (m-)
Certified	Yes	NJ	WPP06.02315	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Xylene (o-)
Certified	Yes	NJ	WPP06.02316	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Xylene (p-)
Certified	Yes	NJ	WPP06.02317	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Xylene (m- + p-)
Certified	Yes	NJ	WPP06.02322	NPW	GC/MS, P&T, Capillary Column	[EPA 624]	Cyclohexane
Certified	Yes	NJ	WPP06.02325	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Hexanone (2-)
Certified	Yes	NJ	WPP06.02326	NPW	GC/MS, P&T, Capillary Column	[EPA 624]	Methyl acetate
Certified	Yes	NJ	WPP06.02328	NPW	GC/MS, P&T, Capillary Column	[EPA 624]	Methylcyclohexane
Certified	Yes	NJ	WPP06.02400	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Diisopropyl Ether [DIPE]
Certified	Yes	NJ	WPP06.02410	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Dioxane (1,4-)
Certified	Yes	NJ	WPP06.02440	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Hexachlorobutadiene (1,3-)
Certified	Yes	NJ	WPP06.02460	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Isopropylbenzene
Certified	Yes	NJ	WPP06.02470	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Isopropyltoluene (4-)
Certified	Yes	NJ	WPP06.02510	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Naphthalene
Certified	Yes	NJ	WPP06.02540	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Propylbenzene (n-)
Certified	Yes	NJ	WPP06.02550	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Sec-butylbenzene

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP06.02590	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Tert-butylbenzene
Certified	Yes	NJ	WPP06.02610	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichlorobenzene (1,2,3-)
Certified	Yes	NJ	WPP06.02620	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichlorobenzene (1,2,4-)
Certified	Yes	NJ	WPP06.02630	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trichloropropane (1,2,3-)
Applied	No	NJ	WPP06.02640	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trimethylbenzene (1,2,3-)
Certified	Yes	NJ	WPP06.02650	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trimethylbenzene (1,2,4-)
Certified	Yes	NJ	WPP06.02660	NPW	GC/MS, P & T, Capillary Column	[EPA 624]	Trimethylbenzene (1,3,5-)
Certified	Yes	NJ	WPP06.03010	NPW	Extract, GC/MS	[EPA 625]	Acenaphthene
Certified	Yes	NJ	WPP06.03020	NPW	Extract, GC/MS	[EPA 625]	Acenaphthylene
Certified	Yes	NJ	WPP06.03030	NPW	Extract, GC/MS	[EPA 625]	Anthracene
Certified	Yes	NJ	WPP06.03040	NPW	Extract, GC/MS	[EPA 625]	Benzo(a)anthracene
Certified	Yes	NJ	WPP06.03050	NPW	Extract, GC/MS	[EPA 625]	Benzo(b)fluoranthene
Certified	Yes	NJ	WPP06.03060	NPW	Extract, GC/MS	[EPA 625]	Benzo(k)fluoranthene
Certified	Yes	NJ	WPP06.03070	NPW	Extract, GC/MS	[EPA 625]	Benzo(a)pyrene
Certified	Yes	NJ	WPP06.03080	NPW	Extract, GC/MS	[EPA 625]	Benzo(ghi)perylene
Certified	Yes	NJ	WPP06.03090	NPW	Extract, GC/MS	[EPA 625]	Butyl benzyl phthalate
Certified	Yes	NJ	WPP06.03100	NPW	Extract, GC/MS	[EPA 625]	Bis (2-chloroethyl) ether
Certified	Yes	NJ	WPP06.03110	NPW	Extract, GC/MS	[EPA 625]	Bis (2-chloroethoxy) methane
Certified	Yes	NJ	WPP06.03120	NPW	Extract, GC/MS	[EPA 625]	Bis (2-ethylhexyl) phthalate
Certified	Yes	NJ	WPP06.03130	NPW	Extract, GC/MS	[EPA 625]	Bis (2-chloroisopropyl) ether
Certified	Yes	NJ	WPP06.03140	NPW	Extract, GC/MS	[EPA 625]	Bromophenyl-phenyl ether (4-)
Certified	Yes	NJ	WPP06.03150	NPW	Extract, GC/MS	[EPA 625]	Chloronaphthalene (2-)
Certified	Yes	NJ	WPP06.03160	NPW	Extract, GC/MS	[EPA 625]	Chlorophenyl-phenyl ether (4-)
Certified	Yes	NJ	WPP06.03170	NPW	Extract, GC/MS	[EPA 625]	Chrysene
Certified	Yes	NJ	WPP06.03180	NPW	Extract, GC/MS	[EPA 625]	Dibenzo(a,h)anthracene
Certified	Yes	NJ	WPP06.03186	NPW	Extract, GC/MS	[EPA 625]	Dibenzofuran
Certified	Yes	NJ	WPP06.03190	NPW	Extract, GC/MS	[EPA 625]	Di-n-butyl phthalate
Certified	Yes	NJ	WPP06.03230	NPW	Extract, GC/MS	[EPA 625]	Dichlorobenzidine (3,3'-)
Certified	Yes	NJ	WPP06.03240	NPW	Extract, GC/MS	[EPA 625]	Diethyl phthalate
Certified	Yes	NJ	WPP06.03246	NPW	Extract, GC/MS	[EPA 625]	Dimethyl benzidine (3,3-)
Certified	Yes	NJ	WPP06.03250	NPW	Extract, GC/MS	[EPA 625]	Dimethyl phthalate
Applied	No	NJ	WPP06.03253	NPW	Extract, GC/MS	[EPA 625]	Dinitrobenzene (1,3-)

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP06.03260	NPW	Extract, GC/MS	[EPA 625]	Dinitrotoluene (2,4-)
Certified	Yes	NJ	WPP06.03270	NPW	Extract, GC/MS	[EPA 625]	Dinitrotoluene (2,6-)
Certified	Yes	NJ	WPP06.03280	NPW	Extract, GC/MS	[EPA 625]	Di-n-octyl phthalate
Certified	Yes	NJ	WPP06.03290	NPW	Extract, GC/MS	[EPA 625]	Fluoranthene
Certified	Yes	NJ	WPP06.03300	NPW	Extract, GC/MS	[EPA 625]	Fluorene
Certified	Yes	NJ	WPP06.03310	NPW	Extract, GC/MS	[EPA 625]	Hexachlorobenzene
Certified	Yes	NJ	WPP06.03320	NPW	Extract, GC/MS	[EPA 625]	Hexachlorobutadiene (1,3-)
Certified	Yes	NJ	WPP06.03330	NPW	Extract, GC/MS	[EPA 625]	Hexachloroethane
Applied	No	NJ	WPP06.03335	NPW	Extract, GC/MS	[EPA 625]	Hexachloropropene
Certified	Yes	NJ	WPP06.03340	NPW	Extract, GC/MS	[EPA 625]	Indeno(1,2,3-cd)pyrene
Certified	Yes	NJ	WPP06.03350	NPW	Extract, GC/MS	[EPA 625]	Isophorone
Certified	Yes	NJ	WPP06.03358	NPW	Extract, GC/MS	[EPA 625]	Methylnaphthalene (2-)
Certified	Yes	NJ	WPP06.03360	NPW	Extract, GC/MS	[EPA 625]	Naphthalene
Certified	Yes	NJ	WPP06.03366	NPW	Extract, GC/MS	[EPA 625]	Chloroaniline (4-)
Certified	Yes	NJ	WPP06.03367	NPW	Extract, GC/MS	[EPA 625]	Nitroaniline (2-)
Certified	Yes	NJ	WPP06.03368	NPW	Extract, GC/MS	[EPA 625]	Nitroaniline (3-)
Certified	Yes	NJ	WPP06.03369	NPW	Extract, GC/MS	[EPA 625]	Nitroaniline (4-)
Certified	Yes	NJ	WPP06.03370	NPW	Extract, GC/MS	[EPA 625]	Nitrobenzene
Certified	Yes	NJ	WPP06.03380	NPW	Extract, GC/MS	[EPA 625]	N-Nitroso-di-n-propylamine
Certified	Yes	NJ	WPP06.03390	NPW	Extract, GC/MS	[EPA 625]	Phenanthrene
Certified	Yes	NJ	WPP06.03400	NPW	Extract, GC/MS	[EPA 625]	Pyrene
Applied	No	NJ	WPP06.03402	NPW	Extract, GC/MS	[EPA 625]	Pentachlorobenzene
Certified	Yes	NJ	WPP06.03405	NPW	Extract, GC/MS	[EPA 625]	Tetrachlorobenzene (1,2,4,5-)
Certified	Yes	NJ	WPP06.03410	NPW	Extract, GC/MS	[EPA 625]	Trichlorobenzene (1,2,4-)
Certified	Yes	NJ	WPP06.03420	NPW	Extract, GC/MS	[EPA 625]	Methyl phenol (4-chloro-3-)
Certified	Yes	NJ	WPP06.03430	NPW	Extract, GC/MS	[EPA 625]	Chlorophenol (2-)
Certified	Yes	NJ	WPP06.03440	NPW	Extract, GC/MS	[EPA 625]	Dichlorophenol (2,4-)
Certified	Yes	NJ	WPP06.03450	NPW	Extract, GC/MS	[EPA 625]	Dimethylphenol (2,4-)
Certified	Yes	NJ	WPP06.03460	NPW	Extract, GC/MS	[EPA 625]	Dinitrophenol (2,4-)
Certified	Yes	NJ	WPP06.03470	NPW	Extract, GC/MS	[EPA 625]	Dinitrophenol (2-methyl-4,6-)
Certified	Yes	NJ	WPP06.03480	NPW	Extract, GC/MS	[EPA 625]	Nitrophenol (2-)
Certified	Yes	NJ	WPP06.03490	NPW	Extract, GC/MS	[EPA 625]	Nitrophenol (4-)

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: WPP06 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP06.03500	NPW	Extract, GC/MS	[EPA 625]	Pentachlorophenol
Certified	Yes	NJ	WPP06.03510	NPW	Extract, GC/MS	[EPA 625]	Phenol
Certified	Yes	NJ	WPP06.03518	NPW	Extract, GC/MS	[EPA 625]	Trichlorophenol (2,4,5-)
Certified	Yes	NJ	WPP06.03520	NPW	Extract, GC/MS	[EPA 625]	Trichlorophenol (2,4,6-)
Certified	Yes	NJ	WPP06.03530	NPW	Extract, GC/MS	[EPA 625]	Benzoic acid
Certified	Yes	NJ	WPP06.03540	NPW	Extract, GC/MS	[EPA 625]	Methylphenol (4-)
Certified	Yes	NJ	WPP06.03550	NPW	Extract, GC/MS	[EPA 625]	Acetophenone
Applied	No	NJ	WPP06.03560	NPW	Extract, GC/MS	[EPA 625]	Alpha - terpineol
Certified	Yes	NJ	WPP06.03570	NPW	Extract, GC/MS	[EPA 625]	Aniline
Certified	Yes	NJ	WPP06.03580	NPW	Extract, GC/MS	[EPA 625]	Benzidine
Certified	Yes	NJ	WPP06.03590	NPW	Extract, GC/MS	[EPA 625]	Carbazole
Applied	No	NJ	WPP06.03600	NPW	Extract, GC/MS	[EPA 625]	Dichloroaniline (2,3-)
Certified	Yes	NJ	WPP06.03605	NPW	Extract, GC/MS	[EPA 625]	Diphenylhydrazine (1,2-)
Certified	Yes	NJ	WPP06.03610	NPW	Extract, GC/MS	[EPA 625]	Methylphenol (2-)
Certified	Yes	NJ	WPP06.03612	NPW	Extract, GC/MS	[EPA 625]	Methylphenol (3-)
Applied	No	NJ	WPP06.03620	NPW	Extract, GC/MS	[EPA 625]	Decane (n-)
Applied	No	NJ	WPP06.03630	NPW	Extract, GC/MS	[EPA 625]	Docosane (n-)
Applied	No	NJ	WPP06.03640	NPW	Extract, GC/MS	[EPA 625]	Dodecane (n-)
Applied	No	NJ	WPP06.03650	NPW	Extract, GC/MS	[EPA 625]	Eicosane (n-)
Certified	Yes	NJ	WPP06.03660	NPW	Extract, GC/MS	[EPA 625]	Hexachlorocyclopentadiene
Applied	No	NJ	WPP06.03670	NPW	Extract, GC/MS	[EPA 625]	Hexadecane (n-)
Applied	No	NJ	WPP06.03675	NPW	Extract, GC/MS	[EPA 625]	N-Nitroso-di-n-butylamine
Applied	No	NJ	WPP06.03677	NPW	Extract, GC/MS	[EPA 625]	N-Nitrosodiethylamine
Certified	Yes	NJ	WPP06.03680	NPW	Extract, GC/MS	[EPA 625]	N-Nitrosodimethylamine
Certified	Yes	NJ	WPP06.03690	NPW	Extract, GC/MS	[EPA 625]	N-Nitrosodiphenylamine
Applied	No	NJ	WPP06.03695	NPW	Extract, GC/MS	[EPA 625]	N-Nitrosopyrrolidine
Applied	No	NJ	WPP06.03700	NPW	Extract, GC/MS	[EPA 625]	Octadecane (n-)
Applied	No	NJ	WPP06.03710	NPW	Extract, GC/MS	[EPA 625]	Tetradecane (n-)
Certified	Yes	NJ	WPP06.03720	NPW	Extract, GC/MS	[EPA 625]	Pyridine
Applied	No	NJ	WPP06.03730	NPW	Extract, GC/MS	[EPA 625]	Methylphenanthrene (1-)

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 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: WPP07 -- Organic Parameters, Individual Pesticide

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	WPP07.23000	NPW	GC	[SM 6640 B]	D (2,4-)
Applied	No	NJ	WPP07.60000	NPW	GC	[SM 6630 C]	Malathion
Certified	Yes	NJ	WPP07.83000	NPW	GC	[SM 6640 B]	T (2,4,5-)
Certified	Yes	NJ	WPP07.84000	NPW	GC	[SM 6640 B]	TP (2,4,5-) (Silvex)

Category: SHW01 -- Microbiological Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW01.01000	NPW, SCM	Multiple Tube Fermentation	[SW-846 9131]	Total coliform
Certified	Yes	NJ	SHW01.02000	NPW, SCM	Membrane Filter	[SW-846 9132]	Total coliform
Certified	Yes	NJ	SHW01.03000	NPW, SCM	Multiple Tube	[SM 9221E + EPA 625/R-92/013 Appendix F]	Fecal coliform
Certified	Yes	NJ	SHW01.03500	NPW, SCM	Membrane Filter	[SM 9222D + EPA 625/R-92/013 Appendix F]	Fecal coliform

Category: SHW02 -- Characteristics of Hazardous Waste

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW02.01000	NPW, SCM	Pensky Martens	[SW-846 1010]	Ignitability
Certified	Yes	NJ	SHW02.03000	NPW, SCM	Aqueous Waste, Potentiometric	[SW-846 9040C]	Corrosivity - pH waste, >20% water
Certified	Yes	NJ	SHW02.06900	NPW, SCM	TCLP, Toxicity Procedure, ZHE	[SW-846 1311]	Volatile organics
Certified	Yes	NJ	SHW02.06950	NPW, SCM	TCLP, Toxicity Procedure, Shaker	[SW-846 1311]	Semivolatile organics
Certified	Yes	NJ	SHW02.07000	NPW, SCM	TCLP, Toxicity Procedure, Shaker	[SW-846 1311]	Metals
Certified	Yes	NJ	SHW02.07100	NPW, SCM	EP Toxicity Test	[SW-846 1310A]	Metals - organics
Certified	Yes	NJ	SHW02.08000	NPW, SCM	Synthetic PPT Leachate Procedure	[SW-846 1312]	Metals - organics
Applied	No	NJ	SHW02.09000	NPW, SCM	Multiple Extractions	[SW-846 1320]	Metals - organics

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009

273 FRANKLIN RD

Randolph Twp, NJ 07869

Category: SHW03 -- Analyze-Immediately Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW03.01000	NPW, SCM	Aqueous, Electrometric	[SW-846 9040B]	pH

Category: SHW04 -- Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW04.05500	NPW, SCM	ICP/MS	[SW-846 6020]	Aluminum
Certified	Yes	NJ	SHW04.07000	NPW, SCM	ICP/MS	[SW-846 6020]	Antimony
Certified	Yes	NJ	SHW04.09500	NPW, SCM	ICP/MS	[SW-846 6020]	Arsenic
Certified	Yes	NJ	SHW04.12000	NPW, SCM	ICP/MS	[SW-846 6020]	Barium
Certified	Yes	NJ	SHW04.14000	NPW, SCM	ICP/MS	[SW-846 6020]	Beryllium
Applied	No	NJ	SHW04.15101	NPW, SCM	ICP/MS	[SW-846 6020]	Boron
Certified	Yes	NJ	SHW04.16000	NPW, SCM	ICP/MS	[SW-846 6020]	Cadmium
Certified	Yes	NJ	SHW04.17505	NPW, SCM	ICP/MS	[SW-846 6020]	Calcium
Certified	Yes	NJ	SHW04.19000	NPW, SCM	ICP/MS	[SW-846 6020]	Chromium
Certified	Yes	NJ	SHW04.21000	NPW, SCM	Colorimetric	[SW-846 7196A]	Chromium (VI)
Certified	Yes	NJ	SHW04.23000	NPW, SCM	ICP/MS	[SW-846 6020]	Cobalt
Certified	Yes	NJ	SHW04.25000	NPW, SCM	ICP/MS	[SW-846 6020]	Copper
Certified	Yes	NJ	SHW04.26005	NPW, SCM	ICP/MS	[SW-846 6020]	Iron
Certified	Yes	NJ	SHW04.28000	NPW, SCM	ICP/MS	[SW-846 6020]	Lead
Certified	Yes	NJ	SHW04.30505	NPW, SCM	ICP/MS	[SW-846 6020]	Magnesium
Certified	Yes	NJ	SHW04.31600	NPW, SCM	ICP/MS	[SW-846 6020]	Manganese
Certified	Yes	NJ	SHW04.34005	NPW, SCM	ICP/MS	[SW-846 6020]	Molybdenum
Certified	Yes	NJ	SHW04.36000	NPW, SCM	ICP/MS	[SW-846 6020]	Nickel
Certified	Yes	NJ	SHW04.38505	NPW, SCM	ICP/MS	[SW-846 6020]	Potassium
Certified	Yes	NJ	SHW04.40600	NPW, SCM	ICP/MS	[SW-846 6020]	Selenium
Certified	Yes	NJ	SHW04.41500	NPW, SCM	ICP/MS	[SW-846 6020]	Silver
Certified	Yes	NJ	SHW04.43005	NPW, SCM	ICP/MS	[SW-846 6020]	Sodium
Certified	Yes	NJ	SHW04.45500	NPW, SCM	ICP/MS	[SW-846 6020]	Thallium
Certified	Yes	NJ	SHW04.47105	NPW, SCM	ICP/MS	[SW-846 6020]	Tin
Applied	No	NJ	SHW04.47150	NPW, SCM	ICP/MS	[SW-846 6020]	Titanium

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ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: SHW04 -- Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW04.47505	NPW, SCM	ICP/MS	[SW-846 6020]	Vanadium
Certified	Yes	NJ	SHW04.49500	NPW, SCM	ICP/MS	[SW-846 6020]	Zinc

Category: SHW06 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW06.02010	NPW, SCM	Microextraction, GC, ECD	[SW-846 8011]	Dibromothane (1,2-) (EDB)
Certified	Yes	NJ	SHW06.02020	NPW, SCM	Microextraction, GC, ECD	[SW-846 8011]	Dibromo-3-chloropropane (1,2-)
Applied	No	NJ	SHW06.02030	NPW, SCM	Microextraction, GC, ECD	[SW-846 8011]	Trichloropropane (1,2,3-)
Certified	Yes	NJ	SHW06.03048	NPW, SCM	GC, Direct Injection or P & T, FID	[SW-846 8015B]	Butanol (1-)
Certified	Yes	NJ	SHW06.03090	NPW, SCM	GC, Direct Injection or P & T, FID	[SW-846 8015B]	Iso-butyl alcohol
Certified	Yes	NJ	SHW06.03142	NPW, SCM	GC, Direct Injection or P & T, FID	[SW-846 8015B]	Propyl Alcohol (n-)
Certified	Yes	NJ	SHW06.03145	NPW, SCM	GC, Direct Injection or P & T, FID	[SW-846 8015B]	Isopropyl alcohol
Certified	Yes	NJ	SHW06.03170	NPW, SCM	GC, Direct Injection, FID	[SW-846 8015B]	Ethylene glycol
Certified	Yes	NJ	SHW06.03180	NPW, SCM	GC, Direct Injection or P & T, FID	[SW-846 8015B]	Methyl alcohol (Methanol)
Certified	Yes	NJ	SHW06.03778	NPW, SCM	GC, Direct Injection or P & T, FID	[SW-846 8015B]	Ethyl alcohol
Certified	Yes	NJ	SHW06.04010	NPW, SCM	GC P&T, FID	[SW-846 8015B]	Gasoline range organic
Certified	Yes	NJ	SHW06.04500	NPW, SCM	Extraction, GC, FID	[SW-846 8015B]	Diesel range organic
Certified	Yes	NJ	SHW06.04520	NPW, SCM	Extraction, GC, FID	[OTHER NJ-OQA-QAM-025, Rev. 7]	Petroleum Organics
Certified	Yes	NJ	SHW06.04540	NPW, SCM	Extraction, GC, FID	[OTHER NJDEP EPH 10/08, Rev. 3]	Extractable Petroleum Hydrocarbons
Certified	Yes	NJ	SHW06.12010	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Aldrin
Applied	No	NJ	SHW06.12015	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Atrazine
Certified	Yes	NJ	SHW06.12020	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Alpha BHC
Certified	Yes	NJ	SHW06.12030	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Beta BHC
Certified	Yes	NJ	SHW06.12040	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Delta BHC
Certified	Yes	NJ	SHW06.12050	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Lindane (gamma BHC)
Certified	Yes	NJ	SHW06.12060	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Chlordane (technical)
Certified	Yes	NJ	SHW06.12070	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Chlordane (alpha)
Certified	Yes	NJ	SHW06.12080	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Chlordane (gamma)
Certified	Yes	NJ	SHW06.12090	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	DDD (4,4'-)

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New Jersey Department of Environmental Protection
National Environmental Laboratory Accreditation Program
ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS
Effective as of 10/07/2010 until 06/30/2011



Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SHW06 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW06.12100	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	DDE (4,4'-)
Certified	Yes	NJ	SHW06.12110	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	DDT (4,4'-)
Certified	Yes	NJ	SHW06.12120	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Dieldrin
Certified	Yes	NJ	SHW06.12130	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Endosulfan I
Certified	Yes	NJ	SHW06.12140	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Endosulfan II
Certified	Yes	NJ	SHW06.12150	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Endosulfan sulfate
Certified	Yes	NJ	SHW06.12160	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Endrin
Certified	Yes	NJ	SHW06.12170	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Endrin aldehyde
Certified	Yes	NJ	SHW06.12180	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Endrin ketone
Certified	Yes	NJ	SHW06.12190	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Heptachlor
Certified	Yes	NJ	SHW06.12200	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Heptachlor epoxide
Certified	Yes	NJ	SHW06.12210	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Methoxychlor
Applied	No	NJ	SHW06.12212	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Mirex
Applied	No	NJ	SHW06.12218	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Simazine
Certified	Yes	NJ	SHW06.12220	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8081A]	Toxaphene
Certified	Yes	NJ	SHW06.13110	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB 1016
Certified	Yes	NJ	SHW06.13120	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB 1221
Certified	Yes	NJ	SHW06.13130	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB 1232
Certified	Yes	NJ	SHW06.13140	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB 1242
Certified	Yes	NJ	SHW06.13150	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB 1248
Certified	Yes	NJ	SHW06.13160	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB 1254
Certified	Yes	NJ	SHW06.13170	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB 1260
Certified	Yes	NJ	SHW06.13175	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB-1262
Certified	Yes	NJ	SHW06.13180	NPW, SCM	GC, Extraction, ECD or HECD, Capillary	[SW-846 8082]	PCB-1268
Certified	Yes	NJ	SHW06.23010	NPW, SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	Dalapon
Certified	Yes	NJ	SHW06.23020	NPW, SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	Dicamba
Certified	Yes	NJ	SHW06.23030	NPW, SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	Dinoseb
Certified	Yes	NJ	SHW06.23040	NPW, SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	D (2,4-)
Certified	Yes	NJ	SHW06.23041	NPW, SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	DB (2,4-)
Certified	Yes	NJ	SHW06.23050	NPW, SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	T (2,4,5-)
Certified	Yes	NJ	SHW06.23060	NPW, SCM	GC, Extraction, ECD, Capillary	[SW-846 8151A]	TP (2,4,5-) (Silvex)
Certified	Yes	NJ	SHW06.23100	NPW, SCM	GC, Headspace, FID	[OTHER J. Chrom. Sci. RSK-175]	Ethane

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SHW06 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW06.25030	NPW, SCM	HPLC, Extraction, Derivatization	[SW-846 8315A]	Formaldehyde

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW07.04010	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Benzene
Certified	Yes	NJ	SHW07.04011	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromobenzene
Certified	Yes	NJ	SHW07.04012	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Butyl benzene (n-)
Certified	Yes	NJ	SHW07.04013	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Sec-butylbenzene
Certified	Yes	NJ	SHW07.04014	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tert-butylbenzene
Certified	Yes	NJ	SHW07.04020	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chlorobenzene
Certified	Yes	NJ	SHW07.04022	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chlorotoluene (2-)
Certified	Yes	NJ	SHW07.04023	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chlorotoluene (4-)
Certified	Yes	NJ	SHW07.04030	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichlorobenzene (1,2-)
Certified	Yes	NJ	SHW07.04040	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichlorobenzene (1,3-)
Certified	Yes	NJ	SHW07.04050	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichlorobenzene (1,4-)
Certified	Yes	NJ	SHW07.04060	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Ethylbenzene
Certified	Yes	NJ	SHW07.04065	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Isopropylbenzene
Certified	Yes	NJ	SHW07.04067	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Propylbenzene (n-)
Certified	Yes	NJ	SHW07.04070	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Toluene
Certified	Yes	NJ	SHW07.04071	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Isopropyltoluene (4-)
Certified	Yes	NJ	SHW07.04072	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichlorobenzene (1,2,3-)
Certified	Yes	NJ	SHW07.04073	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trimethylbenzene (1,2,4-)
Certified	Yes	NJ	SHW07.04074	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trimethylbenzene (1,3,5-)
Certified	Yes	NJ	SHW07.04080	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Xylenes (total)
Certified	Yes	NJ	SHW07.04081	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Xylene (m-)
Certified	Yes	NJ	SHW07.04082	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Xylene (o-)
Certified	Yes	NJ	SHW07.04083	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Xylene (p-)
Certified	Yes	NJ	SHW07.04089	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromochloromethane
Certified	Yes	NJ	SHW07.04090	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromodichloromethane

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES **Laboratory Number:** 14751 **Activity ID:** NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	SHW07.04095	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B] [SW-846 8260C]	Bromoethane
Certified	Yes	NJ	SHW07.04100	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromoform
Certified	Yes	NJ	SHW07.04110	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Bromomethane
Certified	Yes	NJ	SHW07.04111	NPW, SCM	GC/MS, P&T, or Direct Injection, Capillary	[SW-846 8260B]	Cyclohexane
Applied	No	NJ	SHW07.04112	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B] [SW-846 8260C]	Cyclohexanone
Certified	Yes	NJ	SHW07.04120	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Carbon tetrachloride
Certified	Yes	NJ	SHW07.04130	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chloroethane
Certified	Yes	NJ	SHW07.04140	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chloroethyl vinyl ether (2-)
Certified	Yes	NJ	SHW07.04150	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chloroform
Certified	Yes	NJ	SHW07.04160	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Chloromethane
Certified	Yes	NJ	SHW07.04170	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropene (trans-1,3-)
Certified	Yes	NJ	SHW07.04180	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dibromochloromethane
Certified	Yes	NJ	SHW07.04185	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dibromoethane (1,2-) (EDB)
Certified	Yes	NJ	SHW07.04186	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dibromomethane
Certified	Yes	NJ	SHW07.04187	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dibromo-3-chloropropane (1,2-)
Certified	Yes	NJ	SHW07.04190	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichlorodifluoromethane
Certified	Yes	NJ	SHW07.04200	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethane (1,1-)
Certified	Yes	NJ	SHW07.04210	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethane (1,2-)
Certified	Yes	NJ	SHW07.04220	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethene (1,1-)
Certified	Yes	NJ	SHW07.04230	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethene (trans-1,2-)
Certified	Yes	NJ	SHW07.04235	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloroethene (cis-1,2-)
Certified	Yes	NJ	SHW07.04240	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropane (1,2-)
Certified	Yes	NJ	SHW07.04241	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropane (1,3-)
Certified	Yes	NJ	SHW07.04242	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropane (2,2-)
Certified	Yes	NJ	SHW07.04249	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropene (1,1-)
Certified	Yes	NJ	SHW07.04250	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dichloropropene (cis-1,3-)
Certified	Yes	NJ	SHW07.04257	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Diisopropyl Ether [DIPE]
Certified	Yes	NJ	SHW07.04260	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Methylene chloride (Dichloromethane)
Certified	Yes	NJ	SHW07.04270	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tetrachloroethane (1,1,2,2-)
Certified	Yes	NJ	SHW07.04280	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tetrachloroethene
Applied	No	NJ	SHW07.04282	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B] [SW-846 8260C]	Tetrahydrofuran
Certified	Yes	NJ	SHW07.04290	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloroethane (1,1,1-)

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Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
 273 FRANKLIN RD
 Randolph Twp, NJ 07869

Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW07.04300	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloroethane (1,1,2-)
Certified	Yes	NJ	SHW07.04310	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloroethene
Certified	Yes	NJ	SHW07.04320	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichlorofluoromethane
Certified	Yes	NJ	SHW07.04322	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloro (1,1,2-) trifluoroethane (1,2,2-)
Certified	Yes	NJ	SHW07.04325	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichloropropane (1,2,3-)
Certified	Yes	NJ	SHW07.04327	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Vinyl acetate
Certified	Yes	NJ	SHW07.04330	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Vinyl chloride
Certified	Yes	NJ	SHW07.04340	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Acetone
Certified	Yes	NJ	SHW07.04350	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Carbon disulfide
Certified	Yes	NJ	SHW07.04360	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Butanone (2-)
Certified	Yes	NJ	SHW07.04370	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Hexanone (2-)
Certified	Yes	NJ	SHW07.04374	NPW, SCM	GC/MS, P&T, or Direct Injection, Capillary	[SW-846 8260B]	Methyl acetate
Certified	Yes	NJ	SHW07.04380	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Pentanone (4-methyl-2-)
Certified	Yes	NJ	SHW07.04390	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Methyl tert-butyl ether
Certified	Yes	NJ	SHW07.04395	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tert-butyl alcohol
Applied	No	NJ	SHW07.04398	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B] [SW-846 8260C]	Acetonitrile
Certified	Yes	NJ	SHW07.04400	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Acrolein
Certified	Yes	NJ	SHW07.04410	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Acrylonitrile
Certified	Yes	NJ	SHW07.04500	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Hexachlorobutadiene (1,3-)
Applied	No	NJ	SHW07.04530	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260C] [SW-846 8260B]	Hexachloroethane
Certified	Yes	NJ	SHW07.04535	NPW, SCM	GC/MS, P&T, or Direct Injection, Capillary	[SW-846 8260B]	Methylcyclohexane
Certified	Yes	NJ	SHW07.04540	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Naphthalene
Certified	Yes	NJ	SHW07.04550	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Styrene
Certified	Yes	NJ	SHW07.04560	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Tetrachloroethane (1,1,1,2-)
Certified	Yes	NJ	SHW07.04570	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Trichlorobenzene (1,2,4-)
Applied	No	NJ	SHW07.04572	NPW, SCM	GC/MS, Extract, or Direct Injection, Capillary	[SW-846 8260B]	Trimethylpentane (2,2,4-)
Applied	No	NJ	SHW07.04580	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260C] [SW-846 8260B]	Nitrobenzene
Certified	Yes	NJ	SHW07.04590	NPW, SCM	GC/MS, P & T or Direct Injection, Capillary	[SW-846 8260B]	Dioxane (1,4-)
Certified	Yes	NJ	SHW07.04595	NPW, SCM	GC/MS, P & T, Capillary Column	[USER DEFINED SW-846 8260B]	Gasoline range organic
Certified	Yes	NJ	SHW07.04665	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Acetophenone
Certified	Yes	NJ	SHW07.04702	NPW, SCM	GC/MS, Extract, or Direct Injection, Capillary	[SW-846 8270C]	Biphenyl (1,1'-)
Certified	Yes	NJ	SHW07.04775	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dimethyl benzidine (3,3-)

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273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SHW07 -- Organic Parameters, Chromatography/MS

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Applied	No	NJ	SHW07.04866	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Nitrodiphenylamine (2-)
Applied	No	NJ	SHW07.04870	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C] [SW-846 8270D]	N-Nitroso-di-n-butylamine
Certified	Yes	NJ	SHW07.04975	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Tetrachlorobenzene (1,2,4,5-)
Applied	No	NJ	SHW07.05004	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C] [SW-846 8270D]	N-Nitrosodiethylamine
Certified	Yes	NJ	SHW07.05005	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	N-Nitrosodimethylamine
Certified	Yes	NJ	SHW07.05006	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	N-Nitroso-di-n-propylamine
Certified	Yes	NJ	SHW07.05010	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	N-Nitrosodiphenylamine
Applied	No	NJ	SHW07.05011	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C] [SW-846 8270D]	N-Nitrosomethylethylamine
Applied	No	NJ	SHW07.05012	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C] [SW-846 8270D]	N-Nitrosopyrrolidine
Certified	Yes	NJ	SHW07.05020	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Diphenylamine
Certified	Yes	NJ	SHW07.05030	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Carbazole
Certified	Yes	NJ	SHW07.05038	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzidine
Certified	Yes	NJ	SHW07.05040	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dichlorobenzidine (3,3'-)
Certified	Yes	NJ	SHW07.05045	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Diphenylhydrazine (1,2-)
Certified	Yes	NJ	SHW07.05048	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Aniline
Certified	Yes	NJ	SHW07.05050	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Chloraniline (4-)
Certified	Yes	NJ	SHW07.05060	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Nitroaniline (2-)
Certified	Yes	NJ	SHW07.05062	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Nitroaniline (3-)
Certified	Yes	NJ	SHW07.05063	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Nitroaniline (4-)
Certified	Yes	NJ	SHW07.05070	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Chloronaphthalene (2-)
Certified	Yes	NJ	SHW07.05080	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Hexachlorobenzene
Certified	Yes	NJ	SHW07.05090	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Hexachlorobutadiene (1,3-)
Certified	Yes	NJ	SHW07.05100	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Hexachlorocyclopentadiene
Certified	Yes	NJ	SHW07.05110	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Hexachloroethane
Applied	No	NJ	SHW07.05115	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C] [SW-846 8270D]	Hexachloropropene
Certified	Yes	NJ	SHW07.05120	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Trichlorobenzene (1,2,4-)
Certified	Yes	NJ	SHW07.05130	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Bis (2-chloroethoxy) methane
Certified	Yes	NJ	SHW07.05132	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Bis (2-chloroethyl) ether
Certified	Yes	NJ	SHW07.05140	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Bis (2-chloroisopropyl) ether
Certified	Yes	NJ	SHW07.05150	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Chlorophenyl-phenyl ether (4-)
Certified	Yes	NJ	SHW07.05160	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Bromophenyl-phenyl ether (4-)
Certified	Yes	NJ	SHW07.05170	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dinitrotoluene (2,4-)

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Certified	Yes	NJ	SHW07.05180	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dinitrotoluene (2,6-)
Certified	Yes	NJ	SHW07.05190	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Isophorone
Certified	Yes	NJ	SHW07.05200	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Nitrobenzene
Certified	Yes	NJ	SHW07.05210	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Butyl benzyl phthalate
Certified	Yes	NJ	SHW07.05220	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Bis (2-ethylhexyl) phthalate
Certified	Yes	NJ	SHW07.05230	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Diethyl phthalate
Certified	Yes	NJ	SHW07.05240	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dimethyl phthalate
Certified	Yes	NJ	SHW07.05250	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Di-n-butyl phthalate
Certified	Yes	NJ	SHW07.05260	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Di-n-octyl phthalate
Certified	Yes	NJ	SHW07.05270	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Acenaphthene
Certified	Yes	NJ	SHW07.05280	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Anthracene
Certified	Yes	NJ	SHW07.05290	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Acenaphthylene
Certified	Yes	NJ	SHW07.05300	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(a)anthracene
Certified	Yes	NJ	SHW07.05310	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(a)pyrene
Certified	Yes	NJ	SHW07.05320	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(b)fluoranthene
Certified	Yes	NJ	SHW07.05330	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(ghi)perylene
Certified	Yes	NJ	SHW07.05340	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzo(k)fluoranthene
Certified	Yes	NJ	SHW07.05350	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Chrysene
Certified	Yes	NJ	SHW07.05360	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dibenzo(a,h)anthracene
Certified	Yes	NJ	SHW07.05370	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Fluoranthene
Certified	Yes	NJ	SHW07.05380	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Fluorene
Certified	Yes	NJ	SHW07.05390	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Indeno(1,2,3-cd)pyrene
Certified	Yes	NJ	SHW07.05400	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Methylnaphthalene (2-)
Certified	Yes	NJ	SHW07.05410	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Naphthalene
Certified	Yes	NJ	SHW07.05420	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Phenanthrene
Certified	Yes	NJ	SHW07.05430	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Pyrene
Certified	Yes	NJ	SHW07.05440	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Methyl phenol (4-chloro-3-)
Certified	Yes	NJ	SHW07.05450	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Chlorophenol (2-)
Certified	Yes	NJ	SHW07.05460	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dichlorophenol (2,4-)
Certified	Yes	NJ	SHW07.05470	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dimethylphenol (2,4-)
Certified	Yes	NJ	SHW07.05480	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dinitrophenol (2,4-)
Certified	Yes	NJ	SHW07.05490	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dinitrophenol (2-methyl-4,6-)

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 273 FRANKLIN RD
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Category: SHW07 -- Organic Parameters, Chromatography/MS

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW07.05500	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Methylphenol (2-)
Certified	Yes	NJ	SHW07.05510	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Methylphenol (4-)
Certified	Yes	NJ	SHW07.05520	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Nitrophenol (2-)
Certified	Yes	NJ	SHW07.05530	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Nitrophenol (4-)
Certified	Yes	NJ	SHW07.05540	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Pentachlorophenol
Certified	Yes	NJ	SHW07.05550	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Phenol
Certified	Yes	NJ	SHW07.05560	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Trichlorophenol (2,4,5-)
Certified	Yes	NJ	SHW07.05570	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Trichlorophenol (2,4,6-)
Certified	Yes	NJ	SHW07.05590	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Methylphenol (3-)
Certified	Yes	NJ	SHW07.05600	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dibenzofuran
Certified	Yes	NJ	SHW07.05691	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dichlorobenzene (1,2-)
Certified	Yes	NJ	SHW07.05692	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dichlorobenzene (1,3-)
Certified	Yes	NJ	SHW07.05700	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Dichlorobenzene (1,4-)
Certified	Yes	NJ	SHW07.05705	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzaldehyde
Certified	Yes	NJ	SHW07.05710	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzoic acid
Certified	Yes	NJ	SHW07.05720	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Benzyl alcohol
Certified	Yes	NJ	SHW07.05750	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Pyridine
Certified	Yes	NJ	SHW07.05765	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Caprolactam
Certified	Yes	NJ	SHW07.05990	NPW, SCM	GC/MS, Extract or Dir Inj, Capillary	[SW-846 8270C]	Atrazine
Applied	No	NJ	SHW07.07608	NPW, SCM	GC/MS/SIM, Extract or Dir Inj, Capillary	[SW-846 8270C] [SW-846 8270D]	N-Nitrosodimethylamine

Category: SHW09 -- Miscellaneous Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW09.04100	NPW, SCM	Titrimetric/Manual Spectrophotometric	[SW-846 9014]	Cyanide
Certified	Yes	NJ	SHW09.05000	NPW, SCM	Colorimetric, Automated	[SW-846 9012B]	Cyanide
Applied	No	NJ	SHW09.09000	NPW, SCM	Redox Titration	[SW-846 9030B]	Sulfides, acid sol. & insol.
Applied	No	NJ	SHW09.10000	NPW, SCM	Water Extraction, Distillation	[SW-846 9031]	Sulfides - extractable
Certified	Yes	NJ	SHW09.10100	NPW, SCM	Titration	[SW-846 9034]	Sulfides, acid sol. & insol.
Certified	Yes	NJ	SHW09.13000	NPW, SCM	Turbidimetric	[SW-846 9038]	Sulfate

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Category: SHW09 -- Miscellaneous Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW09.14000	NPW, SCM	Electrometric	[SW-846 9040C]	pH - waste, >20% water
Certified	Yes	NJ	SHW09.19000	NPW, SCM	Infrared Spectrometry or FID	[SW-846 9060]	Total organic carbon (TOC)
Certified	Yes	NJ	SHW09.24100	NPW, SCM	Extraction & Gravimetric - LL or SPE	[SW-846 1664A]	Oil & grease - hem
Applied	No	NJ	SHW09.24150	NPW, SCM	Extraction & Gravimetric - LL or SPE	[SW-846 1664A]	Oil & grease - total hem-npm
Certified	Yes	NJ	SHW09.32000	NPW, SCM	Colorimetric, Automated (Ferri-CN AAll)	[SW-846 9251]	Chloride

Category: SHW02 -- Characteristics of Hazardous Waste

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW02.02100	SCM	Burn Rate	[SW-846 1030]	Ignitability of solids

Category: SHW04 -- Inorganic Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW04.03000	SCM	Acid Digestion, Soil Sediment & Sludge	[SW-846 3050B]	Metals
Certified	Yes	NJ	SHW04.03700	SCM	Chromium VI Digestion	[SW-846 3060A]	Metals
Certified	Yes	NJ	SHW04.33500	SCM	AA, Manual Cold Vapor	[SW-846 7471A]	Mercury - solid waste

Category: SHW05 -- Organic Parameters, Prep. / Screening

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW05.03000	SCM	Soxhlet Extraction	[SW-846 3540C]	Semivolatile organics
Applied	No	NJ	SHW05.04000	SCM	Automatic Soxhlet Extraction	[SW-846 3541]	Semivolatile organics
Certified	Yes	NJ	SHW05.04200	SCM	Pressurized Fluid Extraction	[SW-846 3545]	Semivolatile organics
Certified	Yes	NJ	SHW05.05000	SCM	Ultrasonic Extraction	[SW-846 3550B]	Semivolatile organics
Applied	No	NJ	SHW05.05100	SCM	Supercritical Fluid Ex. TPH	[SW-846 3560]	Semivolatile organics
Applied	No	NJ	SHW05.05200	SCM	Supercritical Fluid Ex. PAH	[SW-846 3561]	Semivolatile organics
Certified	Yes	NJ	SHW05.06000	SCM	Waste Dilution	[SW-846 3580A]	Organics

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Category: SHW05 -- Organic Parameters, Prep. / Screening

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	SHW05.06100	SCM	Waste Dilution, Volatile organics	[SW-846 3585]	Organics
Applied	No	NJ	SHW05.06200	SCM	Equilibrium Headspace	[SW-846 5021]	Volatile organics
Certified	Yes	NJ	SHW05.07300	SCM	Closed System Purge & Trap	[SW-846 5035L] [SW-846 5035A]	Volatile organics - low conc.
Certified	Yes	NJ	SHW05.07310	SCM	Methanol Extract, Closed System P & T	[SW-846 5035H] [SW-846 5035A]	Volatile organics - high conc.
Certified	Yes	NJ	SHW05.10000	SCM	Cleanup-Alumina	[SW-846 3610B]	Semivolatile organics
Certified	Yes	NJ	SHW05.11000	SCM	Petroleum Waste, Cleanup Alumina	[SW-846 3611B]	Semivolatile organics
Certified	Yes	NJ	SHW05.12000	SCM	Cleanup-Florisil	[SW-846 3620B]	Semivolatile organics
Applied	No	NJ	SHW05.13000	SCM	Cleanup-Silica Gel	[SW-846 3630C]	Semivolatile organics
Certified	Yes	NJ	SHW05.14000	SCM	Cleanup-Gel Permeation	[SW-846 3640A]	Semivolatile organics
Certified	Yes	NJ	SHW05.15000	SCM	Cleanup-Acid/Base Partition	[SW-846 3650B]	Semivolatile organics
Certified	Yes	NJ	SHW05.16000	SCM	Cleanup-Sulfur Removal	[SW-846 3660B]	Semivolatile organics
Certified	Yes	NJ	SHW05.17000	SCM	Cleanup-Sulfuric Acid/KMnO4	[SW-846 3665A]	Semivolatile organics
Applied	No	NJ	SHW05.18000	SCM	Headspace, GC or GC/MS Screen	[SW-846 3810]	Volatile organics

Category: SHW06 -- Organic Parameters, Chromatography

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	SHW06.01000	SCM	Field GC	[EPA 3815]	Triad Organics

Category: SHW09 -- Miscellaneous Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	SHW09.04000	SCM	Extraction, Oils and Solids	[SW-846 9013]	Cyanide
Certified	Yes	NJ	SHW09.08100	SCM	Extraction	[SW-846 9023]	Extractable organic halides (EOX)
Certified	Yes	NJ	SHW09.16000	SCM	Mix with Water or Calcium Chloride	[SW-846 9045C]	pH - soil and waste
Certified	Yes	NJ	SHW09.25000	SCM	Extraction & Gravimetric	[SW-846 9071 B]	Oil & grease - sludge-hem
Certified	Yes	NJ	SHW09.25100	SCM	Extraction & Gravimetric - LL or SPE	[SW-846 9071 B]	Oil & grease - sludge-hem-npm
Certified	Yes	NJ	SHW09.28350	SCM	Bomb Calorimeter	[ASTM D-240]	Heat of combustion (BTU)
Certified	Yes	NJ	SHW09.29000	SCM	Flow-Through Paint Filter, Observation	[SW-846 9095]	Free liquid

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials

ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS

Effective as of 10/07/2010 until 06/30/2011



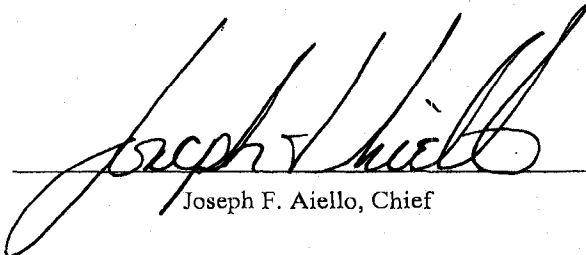
Laboratory Name: INTEGRATED ANALYTICAL LABORATORIES Laboratory Number: 14751 Activity ID: NLC100009
273 FRANKLIN RD
Randolph Twp, NJ 07869

Category: SHW09 -- Miscellaneous Parameters

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	Yes	NJ	SHW09.40000	SCM	Soils, Sodium Acetate	[SW-846 9081]	Cation-exchange capacity

Category: SHW12 -- Immunoassay

Status	Eligible to Report NJ Data	State	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	No	NJ	SHW12.13000	SCM	Field Immunoassay	[EPA 400]	Triad Immunoassay


Joseph F. Aiello, Chief

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials



APPENDIX H

SCHEDULE

**Project Schedule Milestones
Site Remediation Project
Arsynco, Inc. Property
Carlstadt, New Jersey
(Schedule Ver. 3.0)**

TASK DESCRIPTION	PROJECTED END / AGENCY DEADLINE	COMPLETE
Effective Date of EPA TSCA Approval	July 21, 2009	X
Initial Submittal of Engineering & Monitoring (E&M) Plan to EPA (#1)	September 30, 2009	X
Receipt of EPA Comments on E&M Plan	March 29, 2010	X
Submittal of Revised E&M Plan and Project Schedule to EPA (#2)	August, 2010	X
Submittal of Revised E&M Plan with Initial Sampling Plan to EPA (#3)	January 27, 2011	X
Meeting with EPA to Discuss Approach to Proposed Sampling Plan	May 27, 2011	X
Submittal of Revised E&M Plan with Final Sampling Plan Proposal to EPA (#4)	September 16, 2011	X
Receipt of EPA Written Approval of Pre-Excavation Grid Sampling Approach	May 25, 2012	X
Submittal of Map Showing Proposed Location of “Consolidated Material TSCA Disposal Area” to EPA	June 10, 2015	X
Submittal of Revised E&M Plan w/ Grid Sampling Results to EPA (#5)	August 4, 2015	X
MAJOR WORK SCOPE ITEMS		
Permitting	On-going for project duration	
Additional PCB Delineation & Characterization Sampling	1st Quarter, 2014	X
Finalize Design, Build and Install Air Sparge/SVE Treatment System (Sec 1&2)	4th Quarter, 2014	X
Additional RI for Deep GW (vertical delineation of DD-zone)	2nd Quarter, 2015	X
Bid Solicitation, Procurement of Subs (PCB Remediation)	3rd Quarter, 2015	X
Mobilization, Site Setup & SESC Controls (PCB Remediation)	3rd Quarter, 2015 *	
Survey Control and Initial Site Layout for PCB Excavation Work	3rd Quarter, 2015 *	
Tract 1 PCB Material Remediation (Excavation, T&D, Consolidation, TSCA area construction, etc...)	4th Quarter, 2015 * ^	
Tract 2 PCB Material Remediation (Excavation, T&D, Consolidation, etc...)	4th Quarter, 2015 * ^	
Southern Ditch Remediation	1st Quarter, 2016 * ^	
TSCA Cap Construction	1st Quarter, 2016 * ^	
Tract 1 Site-Wide Cap Construction	1st Quarter, 2016 * ^	
Landscape Restoration (Tract 1, Tract 2, Riparian Zone, TSCA Cap Berm)	1st Quarter, 2016 * ^	
Demobilization from PCB Remediation Work	1st Quarter, 2016 * ^	
Install Well Clusters in relation to TSCA Disposal Areas	2nd Quarter, 2016 * ^	
Install Remainder of Perimeter Fencing Per TSCA Approval	2nd Quarter, 2016 *	
Survey & Map TSCA Areas & Prepare As-builts	3rd Quarter, 2016 *	
Install Air Sparge/SVE Treatment System (Sec 3&4)	4th Quarter, 2016 * ^	
Installation of Deep GW IRM Measures	4th Quarter, 2016 * ^	
Quarterly Sampling of Well Clusters for TSCA Disposal Areas (3 yr. Duration)	3rd Quarter, 2019 *	
Shallow GW AS/SVE Treatment System Operation (Sec. 1&2)	1st Quarter, 2022 †	
Shallow GW AS/SVE Treatment System Operation (Sec. 3&4)	1st Quarter, 2024 †	
Shallow Soil Confirmatory Sampling for VOCs in Air Sparge System Areas	2nd Quarter, 2024 †	
Quarterly Shallow MNA GW Sampling After Shutdown of Air Sparge System (2 yr. duration)	2nd Quarter, 2026 †	
Quarterly Deep MNA GW Sampling After Shutdown of Deep Treatment System (2 yr. duration after active treatment)	1st Quarter, 2033 †	
Annual GW Sampling of Well Clusters for TSCA Disposal Areas (27 yrs. After year 3)	3rd Quarter, 2046 *	

AGENCY SUBMITTALS		
EPA SUBMITTALS		
Submit Initial E&M Plan to EPA (#1)	September 30, 2009	X
Submit Revised E&M Plan to EPA (#2)	August, 2010	X
Submit Revised E&M Plan with Initial Grid Sampling Plan to EPA (#3)	January 27, 2011	X
Submit Proof of Financial Assurance for Perpetual Monitoring & Maintenance to EPA	2nd Quarter, 2011	X
Submittal of Revised E&M Plan with Final Sampling Plan Proposal to EPA (#4)	September 16, 2011	X
Submit Location of "Consolidated Material TSCA Disposal Area" to EPA	June 10, 2015	X
Submittal of Revised E&M Plan w/ Grid Sampling Results to EPA (#5)	August 4, 2015	X
TSCA Remedial Action Status Quarterly Reports to EPA	October 20, 2009 (Quarterly Thereafter thru 3rd Qtr. 2016)	
Submit Well Cluster Location Notice to EPA	4th Quarter, 2015 *	
Submit Copy of TSCA Disposal Area Deed Notice to EPA	3rd Quarter, 2017 *	
Annual Summary Reports to EPA	July 1, 2017 (Annually Thereafter on July 1st - 30 year Duration) *	
NJDEP SUBMITTALS		
Remedial Plan (IRM) for Deep Groundwater to NJDEP	September 28, 2012	X
Submit Revised Project Schedule to NJDEP	August 10, 2015	
Submit O&M Plan for Air Sparge System (Sections 1&2) to NJDEP	September 30, 2015	
Submit RIR to NJDEP	May 7, 2016	
Submit O&M Plan for Air Sparge System (Sections 3&4) to NJDEP	September 30, 2017	
Submit Final SOIL Remedial Action Report to NJDEP	December 31, 2017	
Submit Updated RAW for MNA with Revised CEA for Shallow GW (after projected active treatment & 8 quarters of GW monitoring)	March 31, 2027	
Submit Updated RAW for MNA with Revised CEA for Deep GW (after projected active treatment & 8 quarters of GW monitoring)	December 31, 2033	
Remedial Action Progress Reports to NJDEP	January 10, 2012 (Annually Thereafter thru 2017)	

Notes:

* - Schedule for task is contingent on actual time for regulatory approvals, including EPA review and approval of E&M Plan

^ - Actual schedule for task is dependent on weather.

† - Estimated completion date based on assumed active treatment system run-time.